the sections are taken in an extended scale. As for cost of labour, the Public Works rates and local rates paid by private individuals are apt to differ, and unless some superior authority like the Collector intervenes, no proper control can be exercised upon the estimates. I think a paragraph should be added pointing out the difficulties in the way of the zemindar

in checking estimates."

"Remarks by Messrs. Dampier and Harrison.—The above note has been made by Maharajah the Hon'ble Joteendro Mohun Tagore, to whom, as being much interested in the subject-matter of this report, it has been shows. Colonel Haig has left, and the Committee is no longer complete at the time when the notes are received; hence the remarks added to this note, and to those attached to paragraphs 43, 44, 49, and 53 are those of Mr. Dampier and Mr. Harrison only. We admit that the zemindar has great difficulties to contend against in effectively checking the Engineer's estimates, but they are different altogether, not merely in degree, but in kind, from those we are referring to above. The Collector and the Superintending Engineer have no separate establishment at all wherewith to check the Engineer's estimates. If the estimates represent a breach as 120 feet long and 14 deep, it is quite impossible for an officer who cannot visit the spot to say that it is only 100 feet long and 9 feet deep, or if the Engineer states that a certain embankment was over-topped in a recent flood, it is impossible for him to say that it was not. The zemindar has an ample local establishment to enable him to check the estimates, but his difficulty is that he cannot understand them. The estimates are prepared, hoodah by hoodah, and mile by mile, and it is no doubt very difficult for a zemindar to say for certain that there is not the amount of earthwork to be done which the estimates represent. This could be remedied if it were provided that any zemindar might by previous application be present in person or by deputy when the measurements are made. So very few zemindars make any effort to check the estimates that it would only be an obstruction to business to require any notice to be kept informed of the day when the work actually done would be measured up, previous notice of not less than five days should be given him to enable him to be represented."

Baboo Kristodas Pal quite agreed with his colleagues in Committee that it might be difficult to serve notice on all the zemindars interested, but some provision, he thought, might be made to the effect that the Engineer should frame his estimates in consultation with those interested, and he would then take the necessary steps before submitting his estimates. It was for this reason that he wished to add this clause. If the zemindar and the Engineer could be made to act conjointly in the preparation of estimates, it would greatly

reduce disputes and litigation.

The Hon'Ble Mr. Dampier said it was very unpalatable for him, motion after motion, to have to oppose his hon'ble friend, when he really agreed heart and soul in the principle of the amendments which he proposed. He certainly agreed that an Engineer preparing estimates and plans, the results of which were eventually to be paid for by the zemindars, would not be doing his duty if he refused to listen to those interested when they wished to point out that the work could be done as effectively in a more economical manner. But when introducing this Bill, Mr. Dampier had particularly said that it was a Bill which must be supplemented immediately by the issue of rules and orders by the Lieutenant-Governor on the executive side. He would give an instance to show why he objected to the introduction of these apparently harmless little words. His hon'ble friend had said that he did not ask for the service of notices, but imagine a case going into court, and the point turning upon the question whether the estimates were prepared "so far as it may be practicable in consultation with the persons interested in the work." It would be argued that notices had not been served and therefore all that was practicable had not been done and that the law had consequently not been complied with, and then all the proceedings might be upset on this point. Another illustration might be given from the very extract which the hon'ble member had read to the Council. The Committee to which his hon'ble friend referred was an Official Committee, consisting of Colonel Haig, Mr. Harrison, and Mr. Dampier, who were appointed to report upon the working of Act VI (B.C., of 1873, with reference to Midnapore. Why then did they show their report to Maharajah Jotendro Mohun Tagore? Simply because it was their duty to make their report, to use the words of the amendment, as far as possible on consultation with persons interested. There was no doubt that the Maharajah was very much interested in the question, and therefore the Committee thought fit to consult him, and Mr. DAMPIER had no doubt that more or less every Collector who was interested with the working of the Act would do the same. But he objected to the introduction of these words because their only effect would be to give another opportunity.

for finding flaws in the proceedings, if inadvertently some omission took place

in the service of notices and the like.

HIS HONOR THE PRESIDENT quite agreed with the principle of the amendment, but he thought the introduction of the words proposed would make it very difficult to put the Act into force. He thought it ought to be left to the Government to take the necessary measures to see that those interested should have an opportunity of representing their views, and he had no doubt that in the rules passed under the Act provision would be made for the purpose. As he had said before the scope of the amendment was entirely in accordance with the principle upon which this Act was being passed, and with present practice: indeed, it was the policy of giving those interested in embankments a better and safer position than they had before, which led to this Bill being brought forward.

•The amendment was then by leave withdrawn.

#### AMENDMENT OF THE EXCISE ACT.

THE HON'BLE MR. REYNOLDS moved for leave to introduce a Bill to amend the Bengal Excise Act, 1878. He said he felt that he ought to ask the indulgence of the Council in rising to ask for permission to introduce a Bill for the amendment of an Act which had been amended only last year, more especially as the amending Bill of last year was in his charge. But his excuse was that the weak points of an Act were apt to remain undetected until they were brought to prominent notice by the experience gained in the practical working of the law. In this case he believed there could be no difference of opinion as to what the intention of the Legislature was, but the language which was used in the Act was unfortunately such as to carry out that intention somewhat imperfectly, and the result had been that when an attempt was made to put the law into operation against a supposed offender, the High Court set aside the conviction which had been obtained before a Magistrate, and pronounced that no offence against the law had been committed. hon'ble members would refer to the Excise Act of 1878, they would find that section 15 prescribed certain definite quantities for the retail sale of exciseable articles, and it was provided that, subject to any other special direction by the Board of Revenue, the sale of such articles in larger quantities than those specified should be held to be a sale by wholesale, and that a sale in less quantities should be a sale by retail. Then section 17 provided that no person who was not a licensed vendor should have in his possession a greater quantity of any excisable article than that specified in section 15. And the corresponding penalty section was section 61, which declared that any person other than a licensed manufacturer or vendor, or a person duly authorised to supply licensed vendors, having in his possession any greater quantity of any exciseable article than the quantity specified for each article in section 15, without a pass from the Collector, should be liable to fine.

The quantity of tari specified in section 15 was 12 seers. Mr. Reynolds

thought it was possibly the case that the specific quantities mentioned in the Act were not very carefully considered before the Act was passed, because it might have been thought that as a discretion had been reserved to the Board of Revenue to alter those quantities, it was a matter of no great importance what exact quantities were specified. But, however, that might be, the Board found it necessary to reduce the quantity in respect to tari from 12 to 4 seers; and that reduction was duly notified. A man was subsequently prosecuted for having in his possession 6 seers of tari, being a quantity in excess of the quantity authorised to be kept by persons who were not licensed vendors; he was convicted by the Magistrate, and sentenced to a fine, but on the case being referred to the High Court, the Court decided that no offence had been committed under section 61, because that section referred to the quantities specified in section 15 and did not cover any different quantity which might be notified by the Board under the power vested in it. Mr Reynolds did not wish to find fault with the decision of the High Court. Section 61 being a penal section, the obvious principle of law was that it should be strictly construed, and when so construed it did not

cover the altered quantity of tari prescribed by the Board.

The object of this Bill was simply to remove this blemish, and to carry out what was no doubt the intention of the Legislature, that the penalty

provided by section 61 should apply not only to the actual quantities enumerated in section 15, but also to any variation of those quantities which the Board might notify under the wording at the beginning of the section, which

reserved to the Board the power to alter any of those quantities.

The Hon'ble Ameer All said that as the hon'ble mover was about to amend the Act he thought it would be advisable to take this opportunity to explain the meaning of the word "possession" in section 61. There had been a case lately before one of the Presidency Magistrates in Calcutta which gave rise to a discussion as to the meaning to be attached to the word "possession," viz. whether a person who was simply a transmitter of imported exciseable articles which were to be despatched to places out of (alcutta, had "possession" of such articles within the meaning of the Act As some difficulty had arisen on account of the wording of the section, probably the hon'ble member would take this opportunity to make the meaning of the word "possession" clear, so as to leave no doubt in the matter.

The motion was agreed to.

The Council was adjourned to Saturday, the 15th instant.

#### DECREASE OF FISH TRAFFIC ON THE EASTERN BENGAL RAILWAY.

REVENUE DEPARTMENT-MIS. REVENUE. Calcutta, the 4th April 1882. RESOLUTION.

A letter from the Agent, Eastern Bengal Railway, No. 4833, dated the 12th November 1881, reporting a serious falling off in the fish traffic from Goalundo during the year 1881.

A letter from the Commissioner of Dacea, No. 611, dated the 24th February 1882, reporting the result of enquiries regarding the decrease in the number of Hilsa

caught and exported from Goalundo during the same year.

A letter from the Agent, Eastern Bengal Railway, No. 1140, dated the 15th March 1882, with a statement showing the state of the fish traffic on that railway for January and February 1882.

From the reports cited above, it appears that the traffic in fresh fish (chiefly Hilsa) on the Eastern Bengal Railway between Goalundo and Sealdah fell off very seriously during the year 1881, owing to the small take of fish in that year, and that, although the falling off has continued up to the present time, no satisfactory explanation of the unusual scarcity of fish in the Pudma has been discovered. The falling off has been attributed to the contamination of the water due to the steeping of jute, to the lowness of the water in the river. and even to the alarm caused by the steamers plying on it, but these causes appear to the Lieutenant-Governor to be altogether insufficient to account for the great and sudden diminution which has been observed. The matter is, however, one of sufficient importance to demand careful investigation, and the Lieutenant-Governor will direct the officers in charge of the districts bordering on the rivers from which the supplies of fish are obtained to continue to give their attention to the subject, and to report to Government any facts which may come to their notice calculated to throw light on the real cause of the falling off in the fish trade.

ORDER. -Ordered that a copy of this Resolution, and of the Reports cited in

it, be published in the Calcutta Gazette for general information.

Also that copies of the above be submitted to the Government of India,

in the Department of Revenue and Agriculture, for information.

Also that a copy of this Resolution be forwarded to the Commissioner of Dacca for information and guidance.

By order of the Lieutenant-Governor of Bengal,

D. BARBOUR,

Offg. Secretary to the Government of Bengal.

No. 4833, dated Calcutta, the 12th November 1881.

From-F. PRESTAGE, Esq., Agent, Eastern Bengal Railway Company, To-The Secretary to the Government of Bengal, Revenue Department.

I have the honour to draw attention to the attached statement showing the comparative quantities of fresh fish sent down this Railway per month from Goalundo during the last three years, and from which it will be seen that during the year 1881, so far, there has been a most serious falling off in the supply of this valuable article of food.

2. I am also given to understand that the quantity of fish salted at

Goalundo shows an equally serious diminution.

3. Without professing to know much of the habits of the "hilsa," it may be useful to note that during the last season, and when the falling off has been most serious, the Ganges has been unusually low, more particularly in the early part of the freshets, and from which it is thought that much less food has been brought down into that river, and so caused it to be less attractive to the fish as a feeding ground.

4. It may also be useful and interesting to note that the fish frequent the Ganges only, and avoid the Brahmapootra. This may be caused by the much larger quantity of deposit and food in the waters of the former river, or

it may be due to the lower temperature of the Brahmapootra waters.

5. It has been suggested that the increasing quantity of jute steeped each year in the bheels and khalls leading into the Bramhapootra may have caused the waters of that river to become polluted; but considering the enormous discharge of that river, and the comparatively few drops of water polluted by the steeping of jute, this cannot, I should think, affect the whole; but if it did so, it might be the cause of fewer fish travelling up the Pudda below Goalundo, as from that point, as is known, the Ganges and the Brahmapootra waters mitgle together.

6. Against the theory of the possible effect of the jute-steeping, it should be noted that the falling off in the taking of fish was most serious early in the

year, and during the period of the year that no jute-steeping is done.

7. I would beg to solicit that the falling off in this important supply of food, and also of valuable traffic to this and the Northern Bengal State Railway, be brought to the notice of the Lieutenant-Governor, that His Honor may, if so disposed, be pleased to cause an enquiry to be made, with a view to trace, if possible, the causes of the scarcity.

EASTERN BENGAL RAILWAY.

#### Goalundo Fish Traffic from 1st November 1878 to 31st October 1881.

					1878.			1879.			1850,			1881,			Total.		
					Ra.	. P.	T	Rs.	Δ.	P.	Re.	Δ.	P.	Ra.	Α.	P.	Re.	Δ.	. 1
nuary	***	447	***	***	**********		1	20,680	15	0	33,090	6	0	6,142	0	0	59,922	5	-
ebruary	***	***	***		*********		1	59,823	10	0	58,511	14	0	11,346 )	3	0.1	1,24,682	5	
arch	316	100	444		*********		1	24,212	9	0	19,328	8	0	2,471	8	0	46,013	9	
pril	***	***	341	***	***********			4,549	4	0	2,539	13	0		3	0	9,381	14	. 1
ay	***	222	***	***	**********		1	3,120	5	0	1,627	11	0		0	0		10	
180	400	***	***	***	*********		1	10,759	13	0	1,802	15	0	1,947	5	0	14,509	7	
ly	2.17	375	144	***	w-straygares		1	3,455	4	0	1,152	3	0	409	1	0	5,016	7	
agrint	464	275	913	***	351494731111		ė.	4,455	1	0	1,787	13	0	460 I	4	0	6,703	11	
ptember	***	***		***	375456377777	- (4	1	2,630	5	0	6,604	11	0	3,057	5	0	10,292	5	
stober		***	***		************			2,076	11	0	8,610	13	0	1.610	7	0	7,297	15	
ovember	115	***	010			9 0	14	2,830	0	0	1,808	13	0	********		- 1	17,081	8	
ocember	***	. 24.6	+64	221	6,196	1 0	1	5,510	15	0	3,800	4	0	*4*443*****			5,407	4	
			Total		8,538 1	0 0		1,44,113	19	0	1,30,748	0	0	28,454 1	9	0	3,11,895	-	-

No 611, dated Dacca, the 24th February 1882.

From-F. H. Pellew, Esq., Commissioner of the Dacca Division, To-The Secretary to the Government of Bengal, Revenue Department.

WITH reference to your office memorandum No. 2578—216MR, dated 23rd November last, forwarding, for careful enquiry and report, copy of a letter No. 4833, dated 12th idem, from the Agent, Eastern Bengal Railway Company, regarding the decrease in the number of hilsa fish caught and exported from Goalundo in 1881, I have the honour to state that the matter appears to have been personally enquired into by the Collectors of Dacca and Furreedpore, and the Assistant Magistrate of Goalundo, but nothing definite has been ascertained. Indeed the result of their enquiry does not seem to have elicited anything further than what has already been reported to Government by Mr. Prestage.

2. The Assistant Magistrate of Goalundo states that, "as regards the fluctuations in the fish trade from month to month in a single year, more fish is caught when there is less water, but that, taking into consideration the variations from year to year, heavy floods are followed by a large increase of fish in the Pudma after the floods have subsided." He then goes on to say that the larger the volume of water the greater the deposit of food, and a larger

number of fish resorts to the Pudma river as a feeding ground.

3. In forwarding the Assistant Magistrate's report, Mr. Price says that he has made "a careful personal local enquiry into the matter," and that it is his opinion that there are only "two theories to account for the decrease of fish caught at Goalundo." His first theory is that the hilsa fish, owing to the deficiency of the floods of late years, have found the Pudma a less attractive feeding ground, and have not frequented it in large numbers as before. The second is that the same deficiency in the floods has, by reason of the absence of pressure, prevented the difference of temperature between the water of the sea and that of the Pudma, and that in consequence the fish have not sought the waters of the Pudma for the sake of the coolness which they experienced in former years. I submit these observations as they stand, but they are not quite intelligible.

4. The Collector of Dacca says that the fishermen themselves attribute the decrease to (1) the lowness of the river, and (2) the alarm caused to the fish by the steamers plying on the river. As he points out, it is impossible to attribute any serious effect to the latter cause, and the former has probably

much to do with the decrease.

No. 1140, dated Calcutta, the 15th March 1882.

From—The Agent, Eastern Bengal Railway Company, To—The Offg. Under-Secretary to the Government of Bengal, Revenue Dept.

With reference to your letter No. 567 of the 7th instant, I have the honour to forward herewith the statement of fish traffic for the months of January and February 1882.

#### EASTERN BENGAL RAILWAY.

# Fish Traffic. Weight. Amount. Mds. s. Rs. A. P. January ... 3,917 25 5,234 13 0 rebruary ... 12,745 6 14,228 9 0 Total ... 16,662 31 19,463 6 0

#### Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different Districts of Bengal, as reported to Government during the week ending the 8th April 1882.

					D	
N	Ō.	District, and d return.	ate of		Rainfall at Sudder Station in inches.	
EN	GAI					
ENA	UZAZ	Western Distr	icts.			
				00	Nil	Weather-hot, Rain wanted for ploughing. Cholera abating.
1	1	Burdwans Apri	1 10 '	Om		
1	2	Bankoola, ,,	8	*1	0.37	Weather—very warm. A shower of rain and hail fell at head-quarters on the 7th. Wheat and barley are being reaped and thrashed, and are yielding a very good outturn. Khosla lil, borea cotton and indigo are growing in all part of the district. General health good.
DURDWAN LAYE.	3	Seerbhoom, "	. 8	9.9	Nil	Weather—hot and dry. Clouds gathering. Rain wanted to facilitate ploughing Cholera very bad in the country about Sakulipore. Number of deaths have risen to 500. Price of salt has fallen.
O NED	4	Midnapore, "	8	37	0.21	Weather-seasonable. Scarcely any crop in the field. Prices low. General health good on the whole.
9	5	Hooghiy, "	8	25	0.3	Weather-very warm till Sth. No crops on the ground Rain wanted for cultivation and for drinking water. Cholera and cattle-disease still linger in
		Howrab, ., Moheshrekba	10		Nil 0:15	the Serampore sub-division.  Weather—hot, with strong winds. Rain wanted for boro rice. A few sporadi cases of cholera have occurred.
		Central Distr	icls.			
: 1	6	24-Pergunnahs, Ap	ril 10	'82	Nil	Weather-hot, and cloudy towards the evening. There are no crops on the ground. Ploughing for early and amun crops continues. Public health
1	7	Nuddea, "	8	2.5	1:45	generally good. Cholera reported from the Diamond Harbour sub-division.  Weather—hot. Ploughing still continues. More rain wanted. Fever slightly
ENCE	8	Jessore, ,,	8	93	0.07	abating. Cholera stationary, except in a few places.  Weather—cloudy and cool, with high wind and occasional storms. Cultivation progresses actively under the influence of favourable weather. Rain is, however.
PRESIDENCY DAVE.	°9	Moorshedabad, "	8	,,	0.12	still needed in parts of the district. Indigo crop looks promising. Publishers the generally good, though cholers and fever are on the increase.  Weather—warm and cloudy. There was a fall of rain on 7th Cold-weather crops have almost been harvested. The rain has been beneficial, and ploughin
*		h		· '82	****	is rapidly going on. Cholera has abated a little at Jungypore. It prevail here and there in other places.
N.	10	Dinagepore, Apr	u y	02		Weather—seasonable and cool for the time of year. Sowing of bhadoi commenced. Outturn of barley about 10 annas. Rice selling at from 22 to 38 seer per rupee.
BEHAR DIVN.	11	Rajshahye,	, 8	9.0	0.15	Weather—hot, with occasional dust-storms. Want of rain is still greatly felt Land is being prepared for paddy and jute crops, and in places being sown Cholera in many parts of the district. Fever as before.
BEH	12	Rungpore, ,,	7	5.3	Nil	Weather—seasonable. Aus crop is almost everywhere above ground, The lat rain has done much good. Public health good.
H	1.3	Sogra,	8	**	0.98	Weather—warm throughout the week, except to-day (8th). Heavy showers of rai with hail last night (7th). Ploughing and sowing still going on. The rainfal of last night has been very beneficial, but more is desirable. Kherachi
AND C	14	Pubna,	8	21	1.00	sugarcane and pulses are being reaped. Health good, Weather—high winds with heavy rain on 7th. The rain has much improve prospects. Public health generally good, but cases of cholera reported her
RAJEHANTE AND COOL	15	Darjeeling ",	8	33	1.02	and there.  Weather—rather more cloudy than usual for the season, but favourable for te and all crops. A few cases of cholera still occur in the Terai.
RAJE	16	Julpigores, ,,	8	11	0.6	Weather—cool and generally fine. There was a thunderstorm and some rai on Friday night (7th). State and prospects of crops generally fair an promising. There has been too much rain in some places.
		Cooch Behar, Mathabhanga	6	93	Nil 0.23	Weather—cool in the beginning of week, warm since. Tobacco is still bein cut. Prospects of cheena and kaon favourable. Rice sells at Rs. 2 per maune Cholera is still very severe in Gitaldaha and the adjacent places.
		Eastern Dist	riots.			
	17	Daces, Apr	il 8	'82		Weather-warm and cloudy, with strong south wind, Gathering of wint crops nearly completed; yield average. Sowing of paddy and jute going
NATIO	18	Furreedpore,	. 8	25	3 08	on. Public health generally good.  Weather—fair. Prospects of standing paddy crop good.
DACCA DIVIN	19	Backergunge,	- 0	93	Nil	Weather—strong wind from the south and south-east. No signs of rain, whis is much wanted. Sugarcane doing fairly well, but ass sowings are som what retarded. Small-pox is disappearing, but many deaths from cholera a
4	20	Mymensingh, "	7	31	0.15	reported.  Weather—hot, with slight rain. State and prospects of crops good.
43	197		7,672		100	

· u	No.	District,	and de	ite :	of	Rainfall at Sudder Station in inches.	
-							
		R.—contd. Districts—con					
	( 2)	Chittagong	Apri	1 1	1 '82	1.91	Heavy showers in many places, beneficial to spring crops and tea. Prices stationary. Small-pox and cholers not yet cessed. General health fair.
DIVN.	25	Noakholly,	95	6	312	Nil	Weather-warm and cloudy. High southerly wind. Sesamum and moong are still being gathered. Preparation of land for aus paddy going on. In some places aus paddy has been sown.
OMG	28	Tipperah,	n ha ni a	7		Nil	Weather-windy and hot. Prospects of crops normal.
CHITTAGONG	24	Chittagons H		4	23	0.20	Weather-very disturbed; cloudy with high south-east wifid. Joom burning commenced. Tobacco crop much improved by rain. Sugarcane doing well. Cholera and small-pox very prevalent all over the district, and many
0		Hill Tipperal	b, "	5	'n	Nil	Weather-warm. No important crop in the field. Ploughing for sowing paddy
BE	CHAI	i .					has commenced. Public health good.
	25	Patna,	April	. 8	82	Nil	Weather-seasonable. Harvesting of rubbee is still going out Public health
	26	Gya,	^	8	91	Nil	generally good. Weather-hot during the day. Maximum reading of thermometer in shade
	1				,,		106 6. Rubbee is still being harvested; outturn below the average. A few cases of fever and small-pox reported in the interior.
15	27	Shahabad,	2.4	8			Weather-hot and somewhat cloudy occasionally. Rubbee harvest below the average.
PATEA DIVIS.	26	Durbhunga,	**	8	32	. Nil	Weather—cool in the morning and hot in the day. Strong east wind blowing. Indigo promising well. A little cholera in the south and cast. Prices rising
PATE	29	Mozufferpore	, ,	8	782	Nil	slightly.  Weather—hot, sometimes cloudy. Harvesting of rubbee crops continues.  Ploughing for early rice in progress. New wheat and barley coming into
	30	Sarun,	p	8	97	Nil	the market. Public health good.  Weather—hot and bright, with west winds prevailing. Rubbee crops are being threshed, the west winds being favourable to threshing. Indigo coming on
	31	Chumparun,	**	8		Nil	well. Opium weighments in progress; the outturu is expected to be less than the estimate. Prices cheap. General health good.  Weather—hot in the day, cool in the night Rubbee crops are still being har-
	/ 32	Monghyr,	April	8	'82	Nil	vested; outturn generally good. Public health fair.  Weather—seasonable. Harvesting of rubbee crops nearly concluded; average
	1		•				outturn expected.  Weather—hot. West winds blew in early part of the week; latterly east winds.
IE DIVE.	33	Buak arbore.	2.5	20	,,		No crops on the ground at present. Lands are being ploughed, and in some places paddy sowings have commenced. Cases of cholera reported from all parts of the district. In Kissengunge and Behipore thanas there has been a large number of cases.
CPOI	34	Purneah,	21	8	"	Nil	Weather-fine. Rubbee harvest nearly finished; outturn poor. Cholera nearly everywhere
BRAGULFORE	35	Maldah,	22	9		0.05	Weather—getting very hot, and westerly wind blows stronger. There was a slight shower with hail yesterday afternoon (8th). Harvesting of rubbee crops continues. Condition of boro paddy fair. Lands are being cultivated and sown with bhadoi paddy in the dearah parts of the district. A few cases of cholers reported from Englishbazar and Shibgunge than s. General health fair.
		Southal Perg	hs. ,,	9	23	Nil	Weather—hot, west winds prevalent. Harvesting of wheat and barley nearly over in Godda and Rajmehal; outturn below the average in Godda. In Jamtara
OR	1881	١.					and Deoghur mohuz crop poor. Some cases of cholera at Sahebgunge and near Godda.
N.	37	Cuttack,	April	7	*82	Nil	Weather—hot. Dalua rice is being reaped. Rain very much wanted for ploughing. Common rice sells at from 26 to 32 seers per rupee. Cholera and small-pex still reported.
ORIESA DIVE.	38	Pooree, Khurda	90	6		Nil 0.07	Weather—sensonable. Land is still being tilled for sarad crop. Dalua rice is being harvested in some places and is in ear in others. Moong is being harvested. Miscellaneous crops are promising. Common rice sells at from 30 to
OR	1						38 Calcutta seers per rupee. Cattle-disease still reported. Cholera prevails in the country.
	89	Balasore,	12	7	"	Nil	Weather—strong winds with storms; there has been a threatening of rain, but no appreciable rain has fallen. There is much need of rain, for cholera is severe in many places, especially along the coast. Cattle-disease reported in places.
CH	ATO	NAGPORE. South-West		tion			The state of the s
	40	Hasuribago,		7	'82	Nil	Weather—bot and sometimes cloudy. Little or no crop on the ground at present.  There is a partial failure in both the mohua and mango crops. Some cases of small-pox reported from the interior, and of cattle-disease from several sta-
	41	Lohardugga,	n	8	12	Nil	Weather—hot and occasionally cloudy. Mohna crop good in the Palamow sub- division, but indifferent elsewhere in the district. No crops on the ground. Mango crop is a total failure. Rain wanted for spring ploughings. Prices steady. Public health generally good. Small-pox apparently decreas- ing.
	42	Singbhoom,	92	7	20	Nil V	Veather-very hot, with westerly wind. No crops to report about. General
	48	Manbhoom,	.,	8	"	Nil	health good.  Veather—very hot. Cotton and sugarcane doing well: a deficiency in mogus cropis reported from Govindpore, but is hardly borne out by facts. Public health generally good. A few cases of cholera, apparently sporadic, reported from south of district, and from villages in the Govindpore sub-division on the Grand Trunk Road.

Published for general information.

CALCUTTA, STATISTICAL DEPT., \*

The 11th April 1882.

COLMAN MACAULAY,

Offg. Secy. to the Govt. of Bengal.

he following Statement shows the Quantities of the Principal Staples of Traffic imported into Calculta from the Interior during the month of January 1882.

IMPORTS INTO CALCUTTA.

				FO	OD-GRA	INS.			Fibrous	PRODUCTS.	Otto	seeds.				800	AR.
Thence importe	d.	Rick	AND PA	DDT. •	Wheat.	Gram	Other food-	, Total.	T	Gunny-	Timeral	Mustard-	Tea, Indian.	Cotton,	Silk,		Unre
	1	Rice.	Paddy.	Total (in rice).	W Money.	pulse.	grains.	10161.	Jute, raw.	bags,	Linssed.	send.				Refined.	fined
BENGAL.		Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	No.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	M da
wan are	245	1,15,169 77,485	17,680	1,26,206 77,485	*****	618	XXIII	1,26,824 77,485	******	Merick	MARIA	A424 1	132	*****	16	******	****
historia : xxx	***	2,03,820	1,13,318	2,74.644	54898X	XXC(+)	N 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2,74,644	200	580	108	80000	*****	******	113	******	1,01
lels see	***	68,026	3,147 96,847	7,07,100	4,478	5,995	2,366	72,832	27,038 77,385	686,670 667,008	31,251	2,460	******	1,786	2	1,137	3,33
sennium	325	8,48,571	20,002	3,086	6,951	31,295	2,223	43,356	48,375	9,422	53 2,532	951	ARTEA ARE-23	876 205	291111	23,154	53, Ep.
les.	861	27,135	2,350	28,604	167	590	1,275	30,616	8,609		135	659	KARRA	4	*****	850	4,95
shedabad	***	12,799	******	12,799	2,097	7,726	135	23,357 1,228	4,100 2,012	883,833	807	316	*****	HOUSE	491	*****	.00181
pepore	***	1,032	*****	1,033	555	3,425	13:1	5,144	22,109	440	\$61	AKA SHI HEESTAN	NAME OF STREET	STREET.	234	*****	Angres
manye	***		******	E 142	312448	555.42	XANCET	- 4	80,965	837,565	194111	7	HITTE	138114	ARELES	APR 1945	*****
har 6	112	5,147 300	203.147 200.147	5,147	322144	******	******	5,147	2,96,490	189,570	391		*****	*****	*****	*****	Assess
B	***	922 15	******	111111	312121	******	181116	381111	700	41 70 7	161/25	******	4.1	157.00	******	******	PERTER
eling	411	24 X43	0100	16,088	300	250	*****	16,638	46,500 9 75 158	233,595	211111	2865×6	3,395	200404	114188	*****	*****
341	3.67	1 16,088	******	23,280	300	1,219	300	24,799	1,58,596	353 1,296	NATAN	1.770	14	1,340	*****	DEXAGE	
edpore	***	10,94,479	550	10,94,823	144733	18	· ancies	10,94,841	110.0	24111	418 75	550	*****	701111	PRESENT	165111	******
eneingh		4,860	80000	4,860	*****	******	******	4,860	49,689	444 (SX	-	***(1)**	985744		*****	******	*****
rah	337	2,005	*****	2,035	201111	******		2,035	124144	TREAS.	551513	884 as	939	******	*****	100 00	APRICA
holly	511	24,001	141111	24,001	******	order y	11.721	24,001	88184	198111	191714	111.44	*****	141745 30	171 148	*****	*****
tal of Bengal	207	23,17,046	2,33,872	24,63,216	15,196	61,627	6,431	25,46,470	10,99,583	2,900,043	35,237	6,738	4,422	4,372	936	25,455	79,02
BRHAR.												*	-	-		1	
18 7		9	******	2	1,28,337	63,411	2,612	1.94,382	******	*****	1,00,492	6,054	1			1,830	86
343	227	*******	1	*****	543	111111	STORE.	543	*****	*****	*****	113111	ANKAR	11101	******	7,000	1,20
had	***	Actor	XXXIII	809-143	22,023	2,430	232/18	24,453	***/4E	29.8123	8,766 2,094	mirri-	*****	110000	*****	1,130	4,30
fernore	221	224.04	TERINI TERINI	******	271	215	2,659	8,141	200100	131144	22,367	2,866	148748	TARVER	*****	110.01	******
nunga	251	*******	10000	+11111	7,116	352	1,985	9.453	335188	244144	26, 118	6,526	105110	******	*****	*****	* COLUMN
hyr	***	10017	ARRENS	10	19,263	34.4.1	6,578	23,765	******	*****	5,448	8,308	1	istant	YESTEL	seems :	7
uipore	***	10		10	16,062	1,115	\$,1156	5,980	******	14,050	1,730	803	88	******	******	1	******
als	***	1,470	10.111	1,470	1,43+	445	675	4,024	2,985	145.544	101/1	******	-AMARIA	*****	renini .	*****	******
ai Pergunnaha		811	TOTAL PROPERTY OF THE PARTY.	811	1,507	5,826	813	8,957	3,243	74.000	1,900	545	80		7	409	
otal of Behar	***	2,293		2,293	1,97,218	1,09,487	19,377	3,28,375	6,288	14,050	1,75,305	27,397	60	*****	7	3,370	0,64
ORIBHY.																-	
000 *** **	1,10	18,821	2,612	20,453	695	Trees	533.115	21,148	1,899	44,778	113122	11114	16/412	113	*****		******
nota Nagpolè																	
algadi	3.22	ECC-12	arra	******	252771	3,516	XXX 5 2 2	3,516	*****	*****	244.44	2,413	37		NY YEAR	512 FR	*****
total of suppli		23.38.160	2.36.484	24,85,962	2.13.109	1,74,630	25,808	28,99,509	11,07,710	2,914,093	2,07,443	36,549	4,519	4,483	943	28,825	85,46
er the Lieutenai ernor of Benga	1.5																-138
EER PROVINCE	i.																
	10.6	28	incom	28	113111	******	*****	28	9,744	11100	******	3,163	43,402		76		
Western Provin	ices	8		8	2,03,398	191	618	2,04,415	*****		20,881	78,517	465	1,00,704		401	90
2	124	1	201649	1	9,566	1,003	1	11,470	232124	*****		10,000	208	11/11	500123 500123		20
l Provinces	***	*****	Xx2181	****	20,948	##* I TY	3.5	20,948	371181	*****	269	AFFIRE	****	6,404	*****	***	2/8149
Naua Estato	***	\$24.74X 334.185	255565	444.22	******	15	15	15	******	288 188 288 188	41.44	510	188175	16,355	NAMES A	******	*****
8	***	F116+1	ANTITO	MARKE	2+4+2	715	361386	715	311111	251798	149181	******	184 71		1	7.541	****
Burmala	***	1	*****	1	xxxxx	****** A	******	1 4	697118	255 19	*****	*****	2	1.813	28	10'02	11000
344	***	*****	111211	· inerr	******		*****		visted.	111/88	4/1115	141111	781744	12011	20	481	-
total of lm- { 1 to in Jan { 1	882		2,36,484	24,86,000 24,75,310	4,47,021	1,77.457 1,70,529	24,642 21,891	31,37,120	11,17,454	1,889,990	2,25,502	1,18,768 60,759		2,3n,229 2,55,826	1,044	87,271	85.75 86.55

The Sea-borne Trade of Calcutta in these Staples during the month of January 188? was as follows :--

		and the second				-								-		C.3.000
CALCUITA- dian Ports, vis.— nony or ports in Rombay for ports in Madras hap burnah	Mds. 1,79,018 8,045 8,581 1,70,599	Mds	Mdu. 1,79,012 8,044 3,041 1,87,003	Mds.	Mds.	Mds.	Mda. 1,79,012 8,044 18,996 1,85,613	Mds. 4,660	No. 1,553,950 50,400 35,950 181,850	Mds.	Mds.	Mds. 18	Mds.	Mda.	Mds. 4,104 165 199 1,371	Md4.
dicherry	.2,060 4	60 pri	2,039	1,338 3 60	5,542	MAX IV	10.016 504 60	###### ###### ######	340,675	******	###### ######	3	******	3	4,056	1,306
d of Interportal	3,69,959	18,071	3,81,253	1,601	23,480	31	4,06,365	13,168	3,633,975		*****	38		26	10,379	1,399
reign Porta-	400	3485	15017	100	Navi In a	al-la-e					1		11000	100	-	
ed Kingdom	1,87,953	7,679	1,42,752 11,90,760	2,68,400 4,16,995	599 20,934	2,258	4,11,751 10,80,967	4,63,613 8,02,701	2,001,025	2,98,848	17,903 4,939		1,61,308 65,710	50 73	1,524	4,679
of Foreign ports	13,28,718	7,679	18,83,512	6,85,395	21,553	2,258	20,42,718	17,66,314	2,001,025	4,07,206	22,853	59,877	2,37,018	123	1,534	6,679
total of Ex- (1882 in January (1881	16,98,672 18,07,733	25,750 1,149	17,14,765	6,86,996	45,033 40,757	2,259	24.40,083 22,60,047	7,79,489 7,10,701	5,684,300 19,751,976	4,07,203	23.853 18,110	59,915 \$5,101	3,27,018 2,80,170	1,611	11,903 2,835	8,077
-	No. of Concession, Name of Street, or other Persons, Name of Street, or other Persons, Name of Street, Name of	The late of A .	KIND OF THE PARTY	POST COLUMN TO A STATE OF	400000000000000000000000000000000000000	DESCRIPTION OF	K. C. C. C. C. C.	And the second	LOUIS TO SERVER	La real solutions			1 - 1 11	DOMESTIC STREET		A REAL PROPERTY.

<sup>\*</sup> One maund of paddy is equivalent to 25 seers of rice.

policionive of bays obtained by local manufacture.

The following Statement shows the several Routes followed by the Trade in the Principal Staples of Traffic imported into Calculta during the month of January 1882.

#### IMPORTS INTO CALCUTTA.

		P	OOD-GRAI	NS.		FIBROUS 1	PRODUCTS.	Otte	BEEDS.	Tea,			* Bvo
SPECIFICATION OF ROUTES.	Rice.	Paddy.	Wheat.	Gram and pulses.	Other foods	Jute, raw.	Gunny- bags,	Linseed.	Mustard- seed.	Tandings !	Cotton, raw.	Bilk,	Refined.
	Mds.	Mds.	Mds.	Mds.	Mds.	Mus.	No.	Mds.	Mdn.	Mds.	Mds.	Mds.	Mds.
river steamers	20,24.647 28 1.61,480 7.108 1,27,578 1,357	2,02,019 31,853 2,612	62,263 3,83,768 248 47 603	66,638 18. 86,565 12,679 11,183 734	15,735 10,0°5 8,4	4,85,852 1,62,663 3,89,595 78,045 1,899	820,485 38,078	98,575 1,28,431 1,456 130	34,675 8,143 79,310 1,680 40	41,250 922 5,5 8	2,856 5 2,07,547 • 1,614 302 18,310	118 76 694 234 27	6,887 3,771 19628 8,045
and total of Imports ( 1882	23,38,198	2,38,484	4,47.021	1,77,457	20,442	11,17,454	2,914,093 1,889,990	2,28,592 1,90,833	1,18,768	48,616 34,332	2,30,239 2,55,826	1,008	37,871

The following Statement shows the Values, Quantities, and Numbers of the Principal Staples of Traffic exported inland from Calcutta during the month of January 1882.

#### EXPORTS FROM CALCUTTA.

	Cotton piece	-goods.	Cotton	Wist.		Curren		Cottonpiec	e-goods.	Cotton	twint.		
Whither exported.	European.	Indian.	European.	Indian.	Salt.	Gunny- bags	Whither exported.	Euro- pean.	Indian.	Euro- pean,	Indian.	Salt.	Gunny.
RENGAL	* Rs.	Rs.	Mds.	Mds.	Mds.	No.	CHOTT NAGPORE.	Rs.	Rs.	Mda		Mds.	3
Burdwan	4,61,525 65,625	1,462	497 35	782 239	46,891 6,729	78,075. C0,900	Manbhoom	Mary Charge		26	55 676		
Midospore	1,16,621 94,202	3,287	820 805	\$49.0m2	2,170 5,056	39,795 57,796	Total of Chota Nagpore	1,13,700	2//8	20	783	8,774	7,
4-Pergunnaha Vnddea lessore Moorshedabad Jinacepera	3,00,231 4,67,191 16,650 1,09,875	\$4,942 840 1,204	658 2,108 50 48 208	31	12,611 24,074 23,469 20,149	55,337 55,337	Grand total of supplies into the provinces under the Lieutenant-Governor of Bengal.	54,66,330	53,643	14,180	3,547	5,97,100	1,070,
Rajahahye Cungpore dogra	1,22,660 1,78,430 1,18,864 81,180	****** ****** ******	314 64 42 581	34144	7,950 10,039 11,000 2,300 68,050	2,475 1,629 333 6,277	OTHER PROVINCES.  Assam North-Western Provinces and Oudh			660		28,31	
Darjeeling Inlpigores Daces Surreedpore Lackergunge	1,36,129 140 63,000 5,47,168 3,77,120 69,821	1,147	176 1,711 869 260	9 75	250 7,050 26,010 28,051 27,670	3,295 4,537	Punjab Central Provinces Rajputana States Hombay Madras	6,98,550 57,525 18,125 26,525	*****	1,207 306 36	1	******	178,5 178,5 165,6 32,1 1,634,5 217,7
Fymousingh Lipporah L	96,445 16,430	211371 211311 211311	198 20	4	26,450 3,125 2,076	169,800	British Burmah Other places	84,629 6,850 83,27,316	4,801	****	49:	******	1,540, 2,001,
rotal of Bongal	33,99,346	50,547	9,846	1,236	3,63,569	553,328	ormore in Jan 1	1,19,58,103	1,02,030	21,198	8,48	7,65,50	10,384,
BRHAB.	1						The Sea-borne Trade of Co 1882 was as follows:—	aloutta in	those St	aples de	ering th	e month	of Jan
htna	7,11,275 90,075 1,62,850	774 86	172 82 22	83 43 83	97,884 7.178 11,941	228,915 17,115 43,610	IMPORTED INTO CALCUTTA- Prom Foreign Ports-	Rs.*	Rs.	Mds.	Mds.	Mds.	No
Mezaberpuso Joruhunga Karan	1,43,250 1,60,000	516	31	105	7,158 17,928 1,800	1,760 24,800 4,660	United Kingdom Other Foreign ports	1.07,48,340 71,942	******	17,146 626	111111	5,16,133	430.0
ionenyr Inngulpore	91,200 1,22,623 2,51,850	172 800	28 11 44	147 155 88	15,25 k 21,013 0,106	\$8,390 48,565 8,380	Total of Foreign trade	1,08,20,282	*****	17,772		5,67,438	1999
	1,90,875	430	23	155	16,801 18,724	28,635	From Indian Ports-	22,149	71,253		17,584	44,632	
Induh ontual Pergunnaha		as arbui	418	807	2,24,762	455,670	Madras Other ports in Madras	400	321939	492	4	638	808.000
ontical Pergunnaha  Total of Behar	19,14,000	2,838				THE RESIDENCE OF THE PERSON NAMED IN	British Burmah	2,904	166000	ranner 1		Trees.	kam
onthal Pergunnaha	19,14,000	2,848					Other Indian ports Total of Interportal trade	2,954 410 a 25,912	71,253	496	17.588	45,270	Lucia

The following Statement shows the several Routes followed by the Trade in the Principal Staples of Traffic exported for Calcutta during the month of January 1882.

Gunny-br	Halt.	187.	COTTON TW	CE-GOODS.	COTTON PIE	1		-	m or Rov	TO A TO A	Samore	100
		Indian.	European.	Indian.	European.	.						
1,390, 40, 10,034,	Mds. 3,47,180 8,589, 2,04,716 59,164 6,633	Mds. 2,839 115 8,201	Mds. 2,704 2,040 4,403 3,251 1,273 6,689	Rs. 28,457 13,416 8,620 11,772 5,708	Re. 2,84,784 6,14,171 60,02,125 16,44,320 3,51,306 2,50,550	781 291 401 101 102 102	700 700 700 700 400 700	#44	CLC 998 No. 577 665 VES 187 VES 184 WES 281 ARC			y country proceed tail pad , see
7,269,	6,26,233 7,68,601	6,155 8,450	20,319	63,978	83,27,816 1,19,88,108		1882	January	Grand To			

\* As per tariff declaration value,

STATISTICAL DEPARTMENT, The 6th April 1882. Offy. Seey to the Gott, of Bengal

RETAIL 'PRICES-CURRENT OF FOOD-GRAINS, FIREWOOD, AND SALT IN THE DISTRICTS OF BENGAL FOR THE FORTNIGHT ENDING 31st MARCH 1862.

#### RETAIL PRICES-CURRENT of Food-grains, Firewood, and Salt in the

			-														AT 140				IR	ET	AIL	8A	LE:	-QUA	NI	ITH	e per	RUP	ER B
			1	Wy	HRAT.				В	ARL	RY.			Ric	E, B	Rat	80 <b>2</b>	7.		Rici	R, C	OM)	KON.	1		ten I			GREA	T MTE	ENT-
Number.	DISTRICT	18.	Present return.		Next preceding return.	Carrenandading reliting	of last year.		Present return.		Next preceding return	Corresponding leturn	2	Present points.		Neat preceding return	Corresponding return	of last year.		Present return.	Section 2	THE STATE OF THE S	ung return	year.	Present return.	Next preceding return		of last year.	Present roturn.	Next preceding return	Corresponding column
	BENGAL																												•		
W1	estern Distri	eta.	A3 (73)		4.83		. * .								(81	4.50	141	4.91	141	42.	14:	. 24	(6)	0.5							
			B. 0	n. 25	, Un	. 189	Ch.	75.	('b.	. 5.	Ch.	B. CI	1.58,	1.41	.18.	Ch.	Б.	Cli.	la.	On.	о.	Uh	10. (	an.ja	. Ch	als. C	11 25	. Ch.	8 Ch	8 Ch	- 8.Ch
1	Burdwan	***	16 (	0 1	4 0	16	0	55	0	70	0	40 (	24	5	30	12	27	0	32	4	38	0	29	4	***					3	
2	Bankoora	***	17 C	0 )	6 0	19	8	20	()	20	0	20	25	()	20	()	25	0	35	()	37	0	32	8			)				1 101
8	Beerbhoom	***	15	0 1	5 0	18	0					***	25	8	26	0	26	6	30	()	80	0	30	0				- 4			-113
4	Midnapora		14 (	8 1	4 8	16	0					***	20	0	20	U	27	O <sub>r</sub>	28	0	28	U	32	0						***	411
8	Hooghly	***	16 0				0			,	,	***	10	U	10	0	10	0	20	0	30	0	20	0	+4+			**	***	8.00	
	Howrab	***	13	1.	3 0	1.5	8					***	-17	()	18	0	10	8	22	8	25	0	21	8 :		1 .,	1	-4		***	***
0	batral Distri Calcutta	eta.	14 (	) ).	4 0	115	0	26	14	18	12	.21 &	10	()	110	0	6	10	17	12	17	12	18 1	2				44.	32 0	32 0	.32 6
	34-Pergunne		11 8	3 1	1 4	11	8	21	4	23		21 (		()	10	0	10	0	211	0	20	U	19	0			].				26 0
7	Nuddea	***	16 13	3 11	6 0	16	0	26	0	132	0	32 (	120	15	22	15	120	0	124	10	94	10	22 1	4 :					***		20 0
	Jessore		14 F	1	<b>6</b> 8	16	0					•••	21	8	22	0	21	0	29	0	29	0	28	8					***	141	
	Moorshedab	nd .	18 G	) [1]	8 0	19	8						18	O	:8	0	20	U	28	U	28	O	32	0	**				***		
10	Dinagepore		13 16	1	2 12	14	8	22	13	22	12	29 1	26	6	98		j		33		1				184			44	1	***	
11	Rajohabyo		18 12	3	8 8 to 8	19	11	46	0	48	12	53 8	21	0	22	lo	22	}	25	83	26 10 29	)	to	6 ]						- 19	,
19	Rungpore	***	12 c	11	2 0	16	0				••		16	0	15	0	15	0	26	14	95	14	22	8					***	44-	
16	Bogra	40.	92 K	3 2	1 0	24	0				4 >		18	O	18	0	24	U		**	31	1 1	37	6						**	:   
14	Pubna	<b>*</b> # 4	28 6	2	2 0	24	Û		***			***	10	-0	0	0	12			8 4	26		32		٠				***	10-	
16	Darjouling	001	8 ( M		8 0	8	0	8	0	8	0	8 (		U	ß				15		14		13 (			,		- 4	400	***	
16	Julpigoree	***	9 (	1	9 0	10	U	20	U	20	0	. 144	18	U	16	U	it	U	24	U.	13	()	22	В						184	)
-	notore Dime		N														0.0						45.00								1
17	Dacoa	*** (	16 0	113	3 12	18	Ь	40	0	42	6	46 0	122	1	11:1	10	28	8	19	0 1	35	()	ชีย์	i)				4 + 6	***	**	
16	Purrendpore	***	23 C	30	0 0	20	U	80	U	33	O	30 0	20	Ų	20	U	7	U	26	0	26	U	일'. (	D)	14			1-0	691		• •
10	Hackergunge	800	 0		***		••		01				94	U	23	0	20	Ü	29	0	U9	0	32 (		•	***	!		*** **********************************	184	
90	Mymonsing		10 0	16	0 0	11	12			**		•••	20	0	20	0	20	0	30	0	80	0	25 (	)	107		-	10-	144		

The and division: —Retail prior of salt in Satkhira 11½ seers, Burnirhat 9 seers, Barnet 11 seers, firewood 120 to 140 seers, and salt 9½ to 13½ seers, best rice 23 to 36 seers, common rice 26 to 40 seers, and salt 9½ to 13½ seers.

B In the interior prices range as follow: —Wheat 18 to 18 seers, barley 22 to 36 seers, best rice 22 to 36 seers, common rice 36 to 40 seems, and salt 9 to 150 seers, and salt 9 to 140 seers, barley 22 to 36 seers, best rice 22 to 36 seers, common rice 36 to 40 seems, and salt 9 to 150 seers, gram 18 to 24 seers, firewood 160 to 200 seers, and salt 9 to 11½ seers.

D In the interior prices range as follow: —Wheat 12 to 19 seers, barley 20 to 25 seers, best rice 10 to 26 seers, common rice 30 to 36 seers, gram 16 to 23 seers, firewood 100 to 160 seers, and salt 9 to 15½ seers.

E In the interior prices range as follow: —Wheat 14 to 20 seers, barley 17½ to 40 seers, best rice 16 to 31½ seers, common rice 24 to 32 seers, firewood 80 to 200 seers, and salt 10 to 10 seers.

F In the interior prices range as follow: —Wheat 8 to 14 seers, best rice 9 to 26 seers, common rice 35 to 36 seers, gram 8 to 16 seers, firewood 100 to 140 seers.

B In the interior prices range as follow: —Wheat 8 to 14 seers, best rice 9 to 26 seers, best rice 16 to 26 seers, common rice 25 to 30 seers, gram 28 to 32 seers, firewood 100 to 140 seers.

B In the interior prices range as follow: —Wheat 16 to 20 seers, barley 40 to 50 seers, best rice 16 to 26 seers, common rice 25 to 30 seers, firewood 4 manuals, and salt 9 to 10 seers, best rice (in Baigunge) 20½ seers, common rice 30 to 35½ seers, gram 15 to access, firewood 4 manuals, and salt 9 to 10 seers.

## Districts of Bengal for the Fortnight ending 31st March 1882.

IK SEER	()F 80	TOLAH	Ib.	Baseline Constitution										PER	LESALE MAUI 10 Sept	PRICES TD OP RR.	
LESSRE MI RAGI OR I	MURWA	MAISI	or lu			GRAM.		ŀ	(IREW	ю.		SALT.			SALT.		
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moud Harbour 8 seers, Dum-Dum 10½ seers, and Barrackpore 11 seers.

1 In Nattore prices are—Wheat 28½ seers, best rice 12 seers, common rice 20½ seers, grain 10½ seers, drowood 4 manuals, and sait 10½ seers.

1 In Nattore prices are—Wheat 28½ seers, best rice 12 seers, barley (in Bagdogra) 16½ seers, best rice to 22 seers, common rice 21 to 29 seers, lesser millets (in Kurigram) 32 seers, grain 12 seers, firewood 80 to 200 seers, and sait 5 to 9 seers.

K In Seraguings the prices range as follow:—Best rice 10 seers, common rice 26 seers, grain 18 seers, and sait 12½ seers.

L In the interior prices range as follow:—Best rice 16 seers, common rice 18 to 22 seers, lesser millets (in Kurseoug) 12 seers, maize or Indiancorn 16 seers, grain 18 to 14 seers, firewood 80 to 160 seers, and sait 7 seers.

M In the interior prices range as follow:—Best rice 10 to 20 seers, common rice 16 to 26½ seers, grain 8 to 10½ seers, firewood 60 to 64 seers, and sait 5½ to 9 seers.

In the interior prices range as follow:—Wheat (in Jafferguinge) 24 seers, barley 52½ seers, best rice 16 to 26 seers, common rice 26 to 29 seers, grain 20 to 30 seers, firewood 80 to 120 seers, and sait 5 to 12 seers, grain 13 to 23 seers, firewood 120 to 24 seers, barley (in Goalufido) 60 seers, best rice 23 to 29 seers, common rice 28 to 32 seers, grain 13 to 23 seers, firewood 80 to 24 seers, and sait 5 to 11 seers.

P In the interior prices range as follow:—Best rice 24 to 27½ seers, common rice 26 to 33 seers, grain 10 to 20 seers, firewood 60 to 200 seers, and sait 5 to 11 seers.

In the interior prices range as follow:—Best rice 24 to 27½ seers, common rice 26 to 33 seers, grain 10 to 20 seers, firewood 60 to 200 seers, and sait 5 to 11 seers.

#### PRICES-CURRENT of Food-grains, Firewood, and Salt in the

RETAIL SALE .- OUANTITIES PER RUPER DE

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21	Chittegong	9 0	9	0	12 4		***					17	0	18	()	15	(1	23	()	23	0	24	0				ł			
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23	Tipperah	. 13 4	11	8	13 4		p.b.>					25	4	23	()	27	4	33	()	35	(1	37	()							
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28	Durbhunga	. 15 0 W	13	0	24 (	0 26	9 (1	35	0	ก็ก็	0	14	ſı	13	0	19	8	20	()	9.0	0	24	4							
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88	Bhagulpore .	. 15 S	2 12	10	18 1	5 4	U 0			50	0	2)	**	20	3	20	3	24	0	26	4	24	6)				44			
84	Purneab	. 14 C	14	O	20	0	***			40	1	24	()	28	Ð	25	(1	30	0	32	- (2	30	(+						.,,	190
26	Maldah		16	0	16	D	414	1 .				16	()	21	()	16	O	24	0	0.4	()	30	()				***			at
86	Southal Pergh	. 1 0	12	0	14	8	,			* *		25	11	45	(1	20	0	80	63	30	0	30	()							
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87	Cuttack .	. 17 0	18	6	21	0		ŀ	.,			1ô	12	17	1	15	12	30	34	30	3	26	4					-0.0	7	-
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39	Bulasore .	16 0	18	0	16 (				٠.			26	()	20	()	31	12	32	0	32	0	37	12						600	gart
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412	Hazareebegh	1.1.4			91 (	24	11	24	0			12	O.	12	0	13	0	23	O	23	0	28	()					1	131	-
61	Lohardugga .	<b>Z</b> 6	16	0	22 (	30	) (1	24	0	36	0	22	0	22	0	24	()	26	Ð	26	U	28	O						1	
42	Singbboom .	. 21 0	21	0	16	0 40	0 0	40	0	82	0	32	0	32	t)	32	0	36	0	16	0	38	U	1	-	•••		***	***	(
48	Manbhoom	. 26 16 0	15	8	16 (	88	3 0	1.		40	0	22	U	22	0	22	0	38	o	36	0	82	U	ĺ			10	***	***	38

In the interior prices of common rice varies from 26½ to 32½ acers per rupes.

In the interior prices range as follow:—Best rice 24 seers, common rice 26 to 40 seers, and sait 6 to 10 seers, and sait 8 to 9 seers, in the interior prices range as follow:—Wheat 16 to 23 seers, barley 35 to 45 seers, brat rice (iii Jehanabad) 12½ seers, common rice 23½ to seers, lesser millets (in Nowada) 50.acers, gram 31 to 35 seers, firewood 1½ to 5 manula, and sait 9 to 10 seers, common rice 18 to 23½ between the interior prices range as follow:—Wheat 16 to 10½ seers, or firewood 1½ to 5 manula, and sait 9 to 10 seers, manue or indissistent (in Buxar) 30 seers, gram 27 to 31 seers, firewood 2½ to 9 manula, and sait 9 to 11 seers.

In the interior prices range as follow:—Wheat 15 to 16 seers, firewood 5 to 11 seers.

In the interior prices range as follow:—Wheat 15 to 16 seers, firewood 5 manula, and sait 10 to 11 seers.

In the interior prices range as follow:—Wheat 10 to 21 seers, barley 36 to 60 seers, best rice 12 to 23 seers, common rice 25 manula firewood 5 manula, and sait 10 to 11 seers.

In the interior prices range as follow:—Wheat 10 to 21 seers, barley 36 to 60 seers, firewood 2½ to 4 manula, and sait 8 to 13 seers millets 40 to 60 seers, manue or Indian-corn 56 to 60 seers, firewood (ii Buttish) 210 seers, common rice 25 to 30 seers, firewood 2½ to 4 manula, and sait 8 to 13 manula er Indian-corn 60 to 60 seers, firewood (ii Buttish) 210 seers, common rice 25 to 30 seers, common rice 25 to 40 seers, firewood 25 to 40 seers,

### Districts of Bengal for the Fortnight ending 31st March 1882.—(Coneld.)

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		ALT.	8		the same and			T.	BAL	9			D.	700	FIRE				1.	RAM	G <sub>1</sub>			TAR-		COB	ian	Ma	A	urw. Bra.	L M	0	CAG
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† In Gopalgungs sub-divisions 9 seers.

Z In the interior prices range as follow:—Wheat 14 to 20 seers, barley (in Scopolo) 40 seers, best rice 24 to 30 seers, common rice 25 to 32 seers, lesser miliets 50 seers, maise or Indian-corn (in Banka) 40 seers, gram 20 to 28 seers, firewood 160 seers, and salt 8 seers.

Z1 In the interior prices range as follow:—Wheat 13 to 17 seers, best rice 16 to 20 seers, common rice 25 to 32 seers, gram 16 to 20 seers firewood 65 to 160 seers, and salt 8 to 9 seers.

Z2 In the interior prices range as follow:—Wheat 13 to 15 seers, barley 20 to 25 seers, best rice 26 to 32 seers, common rice 30 to 35 seers maise or Indian-corn 40 to 56 seers, gram 20 to 26 seers, firewood (in Godda) 3 maunds, and salt 9 to 10 seers.

Z3 In Khurda prices are—Best rice 28 to 36 seers, gram 20 to 26 seers, gram 21 seers, firewood 200 seers, and salt 12 seers.

Z4 In the interior prices range as follow:—Wheat 17 to 20 seers, barley 30 seers, best rice 12 to 15 seers, common rice 23 to 35 seers, lesser milieta 32 to 50 seers, maise or Indian-corn 30 to 32 seers, part 20 to 33 seers, firewood 200 to 330 seers, and salt 9 to 11 seers.

Z5 In Palamow prices are—Wheat 9 50 seers, barley 33 75 seers, heat rice 16 37 seers, common rice 21 25 seers, but such inside 64 seers, mayor of Indian-corn 30 to 35 seers, barley (in Jialda) 30 seers, best rice 29 to 31 seers, common rice 26 to 35 seers, great miliet (in Gavindpore) 40 seers, barley (in Jialda) 30 seers, maise or Indian-corn (in Burrabasar) 60 seers, gram 16 to 25 seers, threwood 6 to 30 mauncs, sud salt 6 to 11 seers.

## WHOLESALE PRICES-CURRENT of Food-grains, Firewood, and Salt in

																						_									-						101	RI	CES ]	PER M	AUN
,		1				II.	紅柳	AT	•						Ba	RLK	T.					K	CB	. B	ter	00	RT.					Kro	æ,	COI	of the	OE.			Bulk	ven M	LIN
Namber.	Marts.			Present return.			Next preceding return.			Corresponding return	Of 1831 years	The state of the s	Present ret rb.			Near proceding return.		Harrist P. F. H. Paters	of last year,			Leacht return, -			Sext preceding relating		Corresponding return	of last year.			Present return			Next pr-ceding return.		Corresponding telure	of last year.		Present return.	Next preceding return.	Corresponding refurn
		1	R.	Α.	P.	R	. A	. P	. R	i. a	. P.	1;	Α.	1p .	11	. A.	P.	R.	٨,	p.	K.	Α.	P.	14.	Α.	Р.	lt.	<b>A</b> .	r.	lì.	Α,	r.	E.	A .	Р.	It.	Α.	Р.	₩.A.P.	R.A.P.	Rad
4.	Calcutta .		2	14	0	2	14	. (	2	2 10	0	1	8	-()	2	10	0	1	14	0	4	0	(	4	0	0,	8	()	()	2	4	U	2	4	0	2	4	0	104	***	00,
9	Serajgunge .	1	1	12	0	, 1	12		1	4									***		3	12	(1	11	12	()	3 ]	1	6	1	6	()	1	6	U	1	5	0	106		-
	Daocs .	!	2	0	0	2	0		0 8	3 0	1	0	15	()	0	13	(1	0	12	()	1	1	0	1	11	()	1	G	()	1	6	(1	1	2	U:	1	2	0	44,		-41
4	Naraingung	04.					14)			494						3.41			5-9-1		1	6	¢.	1,	7	U	1	4	C	1	8	O	1	ű	0	1	2	U	***		tala
8	Chittagong .	las I		* * *			,						# #++			***			***	1	2	5	()	2.	()	0	2	8	()	1	12	4+	1	12	Đ	1	9	0		•••	600
•	Patua		2	Û	0	2	U	{	1	. 8	{}	0	13	(1	0	13	6	1	U	0	2	14	(1	C	14	b	2	8	0	1	13	Ō.	1	13	0	1	8	0	***	***	- 49
7	Halanore .		0	8	0	3	0	(	2	8	Ω	í	***	İ						1	1	0	i.	1	8	U	1	ō	{ F	1	4	()	1	4	ti	٦	2	O			191
8	Pogree .	.							10000	101				Ì		•••	1			1							,			1	0	2	1	22	4.5	1	, ō	0		***	199
9	Cuttack .		2	ő	Ú	2	02	-	1	11	0		4.61			101					() ee	0	()	Ę.	5	0	2	б	0	1	Б	()	1	Ę,	(1	1	8	U	180	-110	**

CALCUTTA,
The 11th April 1882.

## the undermentioned Marts of Bengal for the Fortnight ending 31st Murch 1882.

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			<b>157.</b>	8.				).	001	BW	Fra	1				M.	RAI	G				AW-	r þ i	R I:		M A 11		RWA S	Mili n Mu Cheni	A01 (	l,	RT	Mus m, Jo	HEAT
MARTS.	of last year.	0.00	Next preceding return.		Present return.		of tast year.	Corresponding return	were preceding return.			Present return.			Corresponding rather		Next preceding return.			Present return.		of last year.		Next preceding return.		Present return.		Corresponding return of last year.	Next preceding return.		Present politica	Corresponding return	Next preceding return.	Freedy roturn
	A.P.	R	. A. I	PR	Α.	R.	₽.	R.A	A.F	R.	p.	Α.	F	A.P.	R.	Р.	٨.	R.	P	ξ. A.	P. E	. A. I	R	.4.1	P. 1		P.   ]	R.A.F	R.A.P.	. P.	R. 4	R. A. P.	R.A.F.	A. P.
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Daosa.	2 0	0 4	13	03	0	3	6 0	0 1	6 0	() 	0	6	0	0 0	2	0	11	1	0	9	1			0-0-1		0.00		10-	***				441	
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Chittagong.	14 0	03	12	03	11	-3		**				***		••			0.61			101	3	***	- Anna	***		0.4.0		***		.	**		***	
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Poores		0	6	03	6	3		***				441					***				}	***		***		107		***	***			193	497	687
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Published for general information

COLMAN MACAULAY,
Offg. Secy. to the Goot. of Bengal.

Results of the Meteorological Observations taken at the Alipore Observatory from 2nd to 8th April 1882.

		lar Ormeter	_ T	BMPRE	ATURB.		l	HTEROM	BTET.		WIND.				
Months Date.	· sasimom in and.	West pressure bard at 32 Fabr	Mean,	Mazunum.	Range.	Marinam.	Mean wet buib.	Vapour tension.	Dew point.	Hamdny.	Prevailing direction.		Miles recorded.	Rain.	Whaters.
M82.	e	Luches	-	- Barris	-	4	0	Inches	$\hookrightarrow$	B/c				Incues	4
pril 2no	161.0	29 766	84.7	95.0	19:8	76.2	78.7	0 905	76 2	77	SSW		218	Nil	Day clear, more ing and sig cloudy, o.
. 8rd	160.7	734	85.1	96.2	21.1	75.4	70'4	932	77:1	78	SSW		216	33	Day clear, mig
,, 4th	150.6	-842	85.8	87.7	21.9	75.8	793	.016	78.6	75	SSW and S		166	***	Day chiefly des
o, 51b	163.7	737	83-8	97.7	224	76 '8	76.8	.631	73'6	72	SSW and variable	•••	80	27	Morning and day and mg
. Stb	151.4	1800	81.3	97*0	21:8	75 2	77*0	*872	75 1	82	S and SSV	•••	122	2.1	loudy,o, =, a
7th	150.7	.794	79.8	87*0	21.6	76.4	70.2	*815	781	80	S and S>W	***	196	Not mea- surable	Cloudy, o, g,
,, 6th	162 7	.770	81:2	90.7	15.6	75.1	78:4	'813	74.1	78	ESE and SSW	***	239	Date	Cloudy, o, g,
The The The	meau i	tempera	ure o	of the	corre	a day	8 oondt	ng per	rod f	or 2	years, S. G. Office	•			29.750 29.780 9.33-1 84-4 22.6 97.7
The	highan	inologi	tr of	the w	rind i	1) (1714	hon	r duri	nu th	50 M.S	even days				Miles.
ine .	nighten	r veroer	ty OI	DIJC W	7,11(1 ).	n whe	шош	) GAII	ng vn	C 01					a.
The	highest	pressu	ire of	the v	vind c	ио и	e squ	are fo	ot du	rin	g the seven days			2 4	40
The t	mean r	elative e relati	hum ve hu	idity midit	duriu y of t	g the	seve	n dayı	ig per		for 24 years, S. G	. Of	lice		77 67
The t	verage total fa	ill from	the 1st	corre Janua	spond ry to	8th	perio April	d for . 1882			S. G. Office	0 4		•••	Nil. 0:40 4:07
The rand from	observ	e fall of pressure ations	f the e, tem made	corre perat at 6h	ure &	nng i c. a , 16h	re de	d for 2 guceo l 22h.	from	th	S. G. Office e traces of the Ba		•		3·20 Thermogr

tuermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatened shen open at the sides, and are suspended four

feet above the ground. The parometer readings are corrected approximately to those of the atandaid Newman's No. 86.

formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III. IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The direction of the movement of the wind are taken from the trace of a Beckley's anemograph. The mouth of the rain-gauge is one foot above the ground.

o overcast, fog, a dem, ir lightning reflection, g gloomy, t thunder, < lightning, / strong wind, d, drizzling rain, K thunderstorm.

METEUROLUGICAL OFFICE, INDIA, The 10th April 1882.

HENRY F. BLANFORD, Meteorological Reporter to the Government of India.

## Abstract of the results of Meteorological Observations taken at the Alipore Observatory in the month of March 1882.

			Inches.	Date.	Hour
The mean pressure of the month			29.850		
The average pressure of 24 years			29.869		
The highest pressure during the month			30.078	12th	10h.
The lowest pressure during the month		4 0 4	29 561	24th	16h.
The range of pressure during the month				\$ ±(11	104.
the tange of viessare during the month	* * *	1 9 9	0.517		
			D		
The mean temperature during the month		4 6 4	80:5		
The average temperature of 24 years			80.6		
The highest temperature during the month			99.0	2 1th	
The lowest temperature during the month		1 0 1	63.2	5th	
The sange of temperature during the month		***	35.8	Oth	
The mean daily range of temperature during t	he mouth		23 2		
The greatest range of temperature in one		or the	40 4		
month	day dirii	ig the	20.0	Mr. L.	
month			30.2	7th	
			Per cent.		
The mean humidity during the month		2	68		
The average humidity of 24 years.		1 0 5	66		
			Inches.		
The mean vapour tension during the month		4.0.0	0.688		
The average vapour tension of 9 years		1 (0 0	0.702		
The mean cloud proportion of the month		* *	1.60		
The total rainfall of the month		4.1	0.52		
The total fall of the month indicated by a	. Beckley's	s solf-			
registering rain-gauge (mouth of the gauge	e 50°5 feet	above			
ground)		4 9 4	0.50		
The average fall of 48 years			134		
The greatest fall in 24 hours	4 4 1		0.52	29th	
			Days.		
The number of raine days in the mouth			1		
The number of rainy days in the month		0.7	1		
The average number of rainy days of 24 years	y # 4		-1:		
			9		
The mean maximum equilibrium temperature of	f solar ra	diation			
of the month			148.6		
The mean difference of sun and air temperatur		1 4 1	55.5		
The greatest sun temperature			156.7	27th	
The greatest excess of sun over air temperature			66.0	27th	
The mean temperature of nocturnal radiatio					
on woollen cloth			62.4		
The mean depression of nocturnal radiati	on therm				
below the minimum of air			7.4		
The greatest depression of nocturnal radiation	on therm	ometer	- A:		
below the minimum of air	- TAULES		11.7	5th	
The state of the s					1
			Miles.		
The mean movement of the wind per day	4 0 0	4 4 +	138 2		
The greatest movement of the wind in one day			3.29:0	29th	34
The greatest movement of the wind in one hou	r		25.0	28th noon	to 1 p.m.
The number of hours, under each of the 8 point	its-				6.

N. 51, NE. 24, E. 23, SE. 19, S. 231, SW. 260, W. 83, NW. 27, Caim 26.

The results of observations at the Alipore Observatory are not rigorously comparable with the registers of past years (at the Park-street Observatory). The barometer is about 3 feet higher at Alipore, and, other things being equal, reads therefore '003 lower. The diurnal range of temperature is also greater at Alipore, and the mean temperature apparently about 2.95° lower; and finally, the thermometer, which has furnished the record of temperature at the Surveyor-General's Office during the last 29 years and upwards, is found to read 0.6 higher than the Kew standard thermometer, which is the standard of reference at the present Observatory.

HENRY F. BLANFORD,
Meteorological Reporter to the Govt. of India.

8.45

METROBOLOGICAL OFFICE, INDIA, The 10th April 1882.

#### Results of the Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 2nd to 8th April 1882.

						i h		TEMPER	LTURB.			HTORO	MBTRT.		1
	bi	OFIE			Date.		Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour tension.	Dew point.	Hazielitz.	Rain.
		1862.					0	0	0	0	0	Inches.	0	%	Inches
April	4.4.1	181	+ 0-1		2nd		R4·B	988	19.3	77:3	79.2	1924	78:9	77	Nil.
ps.	444	0.00		10.0	Brd		F514	94.3	21.6	78.8	792	1915	76:5	76	91
-		14	111		4th	***	86:7	99:69	23.8	76.8	78.7	874	75 9	60	30
-	*1	1.6 -	101		5th		H514	Det 81	21.8	77:3	75.3	734	70:3	-60	35
9.7	49.	00 1	* * *		Bth		88.6	86.8	2 10	788	76.9	1837	73.9	78	22
31	9.6 1			4 4 4	: 7th	101	82.7	92:3	14.3	780	78.0	1897	75.9	1 80	21
9.0	***			441	811		80.8	928	17.2	70 6	760	'605	72.7	71	20

01.1	
** 04.	5
24	0
99.	6
%	
72	
Inche	86.
Nil	
0	99 ( 72 Inche

The mean temperature and humidity are obtained by applying to the means of the 10h, 16h, and minimum readings a correction dependent on the range, and derived from the hourly observations at the Surveyor-General's Office, Chowringhee, in past years.

METEOROLOGICAL OFFICE, INDIA, The 10th April 1882.

HENRY F. BLANFORD.

Meteorological Reporter 18 the Gout. of India.

## Abstract of the results of Thermometric Observations taken at the Meteorological Office, Chowringhee, in the month of March 1882.

			$\Theta$	Date.
The mean temperature during the month	6 9 0	2 0 9	82.6	
The highest temperature during the month	0 0 0	444	100.0	24th
The lowest temperature during the month		0 0 1	65.4	5th
The range of temperature during the month			84.6	
The mean daily range of temperature during the month	1		22.7	
The greatest range of temperature in one day during th			27.9	17th
	1	`	%	
The mean humidity during the month	0.00	0 0 0	62 4	
			Inches.	
The mean vapour tension during the month	•••		0.674	
The total rainfall of the month	0 0 0	•••	0.55	
The greatest fall in 24 hours	000		0.55	
The number of rainy days in the month			1 day.	•

HENRY F. BLANFORD,

Meteorological Reporter to the Govt. of India.

Methorological Office, India, The 10th April 1882.

#### Weekly Return of Traffic Receipts on Indian Railways.

#### EAST INDIAN RAILWAY.

Approximate Return of Transc for week ended 1st April 1882 on 1,506; miles open.

		COACHE	es Trap	PIC.		Munchand	BAF		RE	AL	Other ear	ine	Total car	nind	-	TRAFIC	TRAIN-MILD	S RUN.
		Number of passengers.	Conc			Weight carrie	ed	Recei	pts		(estimate		TO GREE OM P	-	çer i	Coaching,	Merchan- diso.	Potali
Total traffic for the week or per mile of railway far previous 12 weeks of	hnif.	182.295	Ra 2,47,433 164			Mds. 8 23,17,008 80	0 .	Rs. 6,96,633 442	0	-01	19,665 1		9,63,975	-0	fil	51,961}	110,4771	167,5391
yest	.0	2,552,649}	41,64,007	7	D.	2,79,81,621 10	) 8	11,30,397	ñ	3	2,39,567 [	2 10	1,08,34,872	9 1	10	675,737	1,475,554}	2,151,891
Total for 13 weeks Comparison.	***	2.784,9444	44,12,340	15	\$9	3,03,01,030 0	1 8	1,27,032	5	8	2,59,474	7 10	1,37,94,447	9.1	10	720,7983	1,502,032	2,319,930
Total for corresponding week previous year Permile of railway corresponding	nd-	166,342	2,64,947	63	2	20.14,256 20	1 .	5,67,011	7	3	16,922	7 0	3,49,901	4	4	50,505	9H.004	148,309
ing week of previous year Potal to corresponding dat		**** * 1 *	176	2	4	*****		374	15	0	11	di C	100	23	6		*****	*****
provious year	i	2,200,507}	34,31,514	3	5	2,62,38,552 30	8	34,01,190	-6	0	2,39,999	1 8	1,20,71,700	9	٩	661,979	1,407,340	2,129,310

#### EASTERN BENGAL RAILWAY.

Approximate Return of Traffic for week ended 1st April 1882 on 1717 miles open.

· · · -					***														
	COACHING	THAFFI	c.		MERCHANDI:		AND MIN	ER	\L	Other en			Total en	man.	N 0	TOTAL	Teath-mile	S RUM.	
	Number of passengers.	Coachi			Weight currie	ci.	Receip	ts		(estima	tod	),	1004161	F 7 1 1	1885CN.	Coaching.	Merchan-	Total	
Total traffic for the week Ur per mile of railway For previous 12 weeks of half-	55,286½ 322	Вя. 34,217 199	0	()	Mds. 8 2,34,476 ( 1,385 (	1)	R4. 36,133 210	13	45	1.134	()	0		9	0	5,3494	7,1721	13,029	4
Not bleated at a contra of diffit-	954,433	3,94,048	0	0	31,03,986	n	5,41,100	()	0 1	0,336	()	()	9,31,484	0	0	71,786	85,7924	157,528}	
COMPARISON.	1,010,0994	4,18,265	0	0	83,38,412	0	5,77,233	0	0	7,470	0	0	10,02,968	()	47	77,585}	92,963	170,550	
Total for corresponding week of previous year.  Per mile of railway corresponding week of previous year.	50,3894 286		6		1,95,960	3	29,887 170		- 1	1,114	0	0	60,000		- 1	6,160}	5,882}	12,048	
Total to corresponding date of previous year	G03,896}	4,21,304	()	0	17.24.786	n i	1,92,654	()	0	6,210	()	0	9,20,168	1)	0	76,7113	H4,7742	161,486	

Included Rs. 196 on account of Revenue stores.

#### BENGAL PROVINCIAL RAILWAYS.

Weekly Statement of Traffic Receipts.

No. 9.

					RECEU	PTS	FOR	WEEK END	IN	G.	POTAL REC	CRI	PTs F	ROM 1ST J	LNE	ARY				Total	Percentage of
	test return received.	a	Name of Railway.	Length open.	5th Marc	h 1	881.	4th Mure	h 1	992.	To 5th 1		teli	To 4th A		ch	Total in			decrease 12 1833.	increase or decrease.
	1883.			Miles.	Ru.	Δ.	P.	Rs.	À.	Р.	Rs.	A	P.	Ba.	Α.	P.	Ra.	A.	p.	BG. A. P.	
66h 6th 6th 6th	March dato dr. so drtso	44	Northern Bengal Tirhoot Patim-Gya Calcutta and	230 82 57 28	32,302 11,040 9,593 2,827	0	0	41,888 18,549 12,690 3,630	0	0	3,02,848 1,00,569 78,570 28,734	0.0	(1)		0	()	51,417 20,003 33,523 3,841	0	0 0	000 *** 000 ***	+16 +19 +42 +18
Mb	ditto		South-Eastern. Nalhati	271	1,562	0	0	1,503	()	0	12,359	0	0	13,257	0	0	898	()	0		+ 7
			Total	4242	57.324	0	11	75,260	U	()	5,23,080	0	0	6,32,700	()	U	1,09,682	0	U	*****	+50

#### DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

Weekly Statement of Traffic Receipts.

The letters		BECKIPTS FOR	WEEK BUDING	TOTAL ERCEIPTS	FROM 1ST JANUARY	Total increase	Total decrease	Percentage
received.	Length open.	5th March 1881.	4th March 1982.	To 5th March 1881.	To 4th March 1882.	in 1882.	in 1882.	or decrease.
th April 1808	50	Rs. A. P. 8,643 0 3	Rs. A. P. 7,683 15 6	Rs. A P. 22,601 12 5	Rs. J. P. 47,046 11 10	Rs. A. P. 24,464 15 5	*60	(propor-

Calcutta, 5th April 1882.

. Length open 80 miles.

GILLANDERS, ABBUTHNOT & Co., Secretaries.



## SUPPLEMENT TO

## The Calcutta Gazette.

WEDNESDAY, APRIL 19, 1882.

#### OFFICIAL PAPERS.

Non-Subscribers to the Gazette may receive the Supplement separately on payment of Six Rupers per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.

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#### Proceedings of the Council of the Lieutenant-Governor of Bengal for the purpose of making Laws and Regulations.

Saturday, the 15th April 1882.

#### PRESENT:

HIS HONOR THE LIEUTENANT-GOVERNOR OF BENGAL, Presiding.

The Hon'ble A. Phillips, Officiating Advocate-General.

The Hon'ble H. L. Dampier, C.I.E. The Hon'ble H. J. Reynolds.

The Hon'ble M. A. Cockerell, c.s.i.
The Hon'ble D. M. Barbour.

The Hon'ele T. T. Allen.

The Hon'ble Ameer Ali.

The Hon'ble Brudes Mookerjee, C.I.E.,

and

The Hon'ble Moulvie Mahomed Yusuf.

#### EMBANKMENTS AND WATER-COURSES.

THE HON'BLE MR. DAMPIER said that before moving that the Bill to amend the law relating to embankments and water-courses be passed, he might just mention that it had occurred to him that it would be better to put the penal sections of the Act into a separate part by themselves. Part VII was a miscellaneous one and was very lengthy, containing a variety of provisions besides the penal clauses, and it was usual to put the

penal sections into a Part by themselves. He therefore proposed that the Secretary be instructed to do this. Then there was an amendment just brought to Mr. Dampier's notice in section 94, which made certain parts of this Act applicable to Orissa. Section 18 was one of the sections which were extended by section 94. That section had two clauses, but clause (a) he found was already contained in the Orissa Act, and clause (b) was unnecessary; therefore his first amendment in section 94 was to omit the figures "18." The other amendment was this—Section 76 was one of the sections to be extended to Orissa, and it was proposed to add to section 94 the words "the words "Superintendent of Embankments" being substituted for the word 'Coffector' in clauses (a) and (b) of section 76." Section 76 was the penal section which provided that when a tract of country had been notified by the Lieutenant-Governor, alterations might not be made without the sanction of the Collector (as the Bill now stood), but in Orissa the Superintendent of Embankments would be the officer whose permission would be necessary.

The amendments were severally agreed to

On the motion of the Hon'Bla MR, Dampier the Bill was then passed.

#### AMENDMENT OF THE EXCISE ACT.

The Hon'ble Mr. Reynolds moved that the Bill to amend the Bengal Excise Act, 1878, be read in Council.

The motion was agreed to.

The Hon'ble Mr. Reynolds also moved that the Bill be referred to a Select Committee, consisting of the Hon'Ble Mr. Allen, the Hon'Ble Ameer Ali, the HON'BLE MAHOMED YUSUF, and the Mover, with instructions to report in a fortnight. He explained that the Bill, as introduced, was of so simple a character, being nothing more than a verbal amendment of the law, that he had intended to ask the Council to dispense with the formality of referring the Bill to a Select Committee, and to pass the Bill that day. But since he had taken charge of his office at the Board of Revenue, he found that his predecessor had proposed four or five other amendments of the law, some of them of a more important character than those contained in the Bill. He therefore thought it necessary that the Bill should be referred to a Select Committee.

The motion was agreed to.

#### ADJOURNMENT OF THE COUNCIL.

HIS HONOR the PRESIDENT adjourned the Council for a fortnight, and in doing so he said :- "Before that day arrives, I shall have left India and made over office to my successor. Therefore, before leaving, I wish to take this opportunity of saying farewell, and of thanking you for the very great assistance you have given me in the work of this Council. We have not attempted to legislate in this Council merely for the sake of legislation, and we have introduced no measures into the Council until they have been proved to be necessary, either for administrative purposes or in consequence of distinct demands from the public; and we have, as long as I have known the Council, attempted to keep rather behind than in advance of the public demands for legislation. But I think our Statute-book shows that we have passed some very useful measures during the last few years. Our sittings here have not been very lengthy or tedious, but they really represent a very small portion of the time which has been given up by you to the irksome and severe work of sittings in Select Committee. You all know how very much of the time of members is taken up in this way, and that it is done with great sacrifice, all of you having other duties to attend to."

The Council was adjourned to Saturday, the 29th instant,

#### EXTENSION OF LOCAL SELF-GOVERNMENT.

FINANCIAL DEPARTMENT.—LOCAL GOVERNMENT—No. 9211.

Calcutta, dated the 8th April 1882.

From—Colman Macaulay, Esq., Officiating Secretary to the Government of Bengal, To—The Secretary to the Government of India, Department of Finance and Commerce.

I am now directed to acknowledge the receipt of your letter No. 3513, dated 10th October, on the subject of the further extension of local self-government in Bengal. Sir Ashley Eden has given this question his most careful consideration, and he has had before him the opinions of the local officers of his administration as well as those of various public bodies in this province. The conclusions at which he has arrived are stated in the following paragraphs.

2. Sir Ashley Eden has no doubt of the soundness of the general policy of extending local self-government in Bengal, and he believes it to be at once the duty and the interest of Government to promote among the people a genuine and intelligent concern in the management of local affairs and the development of local institutions. But he is convinced that, if this policy is really to succeed, it must be infroduced with the utmost caution, and that any attempt to force suddenly upon the country at large an elaborate system of administration based upon the practice of Western nations and foreign to all the traditions and ideas of the people, must necessarily result in failure. The first question, therefore, which he has had to consider is whether the legislation which will be needed to confer the necessary powers on local bodies in advanced districts could contain provisions so graduated that some at least might be extended to all districts. After careful consideration he has come to the conclusion that this would not be possible, and in this opinion a number of experienced officers whom he has consulted unanimously concur. In a province like Bengal, which contains districts representing many different stages of development and education, no single system of local self-government could be administered with success. Pooree and Chumparun differ as much from Singbhoom and the Chittagong Hill Tracts on one side as they differ from Hooghly and the 24-Pergunnahs on the other. If the measure were uniform, it would fail by being either too elaborate for the backward districts or too simple for the more advanced. If it provided in itself for too many gradations, it would be unwieldy. In the Lieutenant-Governor's opinion we should provide for the gradual advance of backward districts by improving existing machinery and enlarging the powers of local bodies, as far as may be considered advisable, by executive order. For advanced districts one comprehensive measure should be enacted providing for all the branches of local self-government.

3. It is unnecessary at this stage to specify the districts to be placed under the first category. They will probably be those comprised in the Chota Nagpore, Orissa, and Chittagong Divisions, and some of those comprised in the Patna, Bhagulpore, Rajshahye, and Dacea Divisions. The three districts to which the Cess Act does not apply—Singbhoom, the Sonthal Pergunnahs, and the Chittagong Hill Tracts—will of course not be affected. The Lieutenant-Governor trusts that, as time goes on, the number of districts admitted to the larger measure will gradually increase. Meanwhile he considers that the following policy should be adopted. The Committees

constituted under the Cess Act should be carefully revised and strengthened, inactive members being climinated and members added who will consent to take a genuine interest in the administration of the district affairs. To these Committees should be entrusted provisionally the maintenance of all Provincial Roads, of Staging Bungalows, and of such other buildings as the Department of Public Works may find it possible, in consultation with the Committees, to place under their management. The existing District Education Committees should be abolished and their functions transferred to the Committees already entrusted with the administration of the Road Cess. These functions would be considerably enlarged. They would extend to some control over the grant for primary schools, and over the grant-in-aid allotment, and to the management of Government secondary schools and circle schools, and of Government high English schools. The Committee would also be vested with the management of all dispensaries outside numicipal limits which now receive aid from Government. They would have the charge of all school and dispensary buildings in cases where the institution was under their charge. A fixed grant would be made representing the present expenditure on the services entrusted to the Committees, less the net proceeds of ferries and pounds in the district. The latter sources of income would be made over to them, but the administration of ferries and pounds could only be confided to bodies appointed under the new Act. It would be understood that ample powers of inspection would be reserved to Government, and that, in the event of the duty not being satisfactorily performed, the whole or a part of the grant or of the Committee's powers might be withdrawn. In some districts it might not be possible to give such large powers, but this is the general scheme that Sir Ashley Eden would wish to try in districts which are not yet sufficiently advanced for a more elaborate measure. As the new law cannot come into force for some months he would apply this executive measure at once to all districts, extending the new law afterwards to such districts as may be considered suitable for its application. Orders in this matter will not, however, be immediately issued, as Sir Ashley Eden does not consider that it would be proper for him, immediately before laying down the Government, to commit his successor to such a large measure of policy.

4. The law embodying the more elaborate measure of local self-government should be framed on the model of the General Municipal Act, with provisions under the various heads, which could be extended or withdrawn by executive order. One chapter would deal with public works, and would take the place of Chapters VIII to XII of the Cess Act, which chapters would, on the extension of the new Act to any district, cease to be in force in it. Another would deal with sanitation, a third with medical charity, and so forth. The Lieutenant-Governor now proceeds to explain the details of the legislative measure which he would propose.

#### (1.)—Constitution of Bourds.

5. If any practical result is to be obtained from the extension of local self-government, it is essential that the unit of administration should be the Local or Sub-divisional Board, and not the District Board. The District Board should have the general control of the scheme of district work; it should have the allotment of funds, and it should direct the policy of the district as a whole. But the details of local self-government can only be performed by working local bodies with limited areas of jurisdiction. Where these cannot be formed, as much use as possible must be made of District Committees; but it is only to districts in which they can be formed that a detailed scheme such as is now under consideration can with any advantage be applied. It is quite impossible that the uffairs of a district in many departments can be efficiently managed by a body of men meeting six or eight times in the year at the head-quarters station. The distances are too great, and the number of possible meetings would be too small, to admit of thorough control by the Board at large, and it would be hopeless to look for sustained interest on the part of the members in the details of business conducted on such a system. One of two evils would be inevitable,—either meetings would be held at long intervals, when the work could not be properly done,—or meetings would be held at short intervals, when members from outlying places would be practically excluded, and the work of the Board would

fall into the hands of the members who reside at or near the head-quarters Some officers propose to have departmental sub-committees to conduct the executive business of the District Board in the different branches during the intervals between its meetings. This, however, would only stereotype the second evil just referred to. These sub-committees must meet frequently, and only members residing at or near the head-quarters station—certainly in the head-quarters sub-division—could attend meetings frequently. A few members, therefore, from the head-quarters station and its neighbourhood would do all the executive work of the District Board, merely reporting to, or taking orders from, the general body six or eight times a year. The members from the interior of the district would be deprived of all concern in the working of the business of local self-government. Yet it is this concern, and not the privilege of voting or debating at meetings held a few times in the year, that we wish to secure to them in order that they may learn to administer their own public affairs. What is required is a Local Board for each sub-division, inclusive of the head-quarters, each Local Board doing the work of its own sub-division under the general control of the District Board, and periodically referring to it questions of district importance and applying to it for the allotment of district funds. It is certain that sub-committees at the head-quarters and Local Boards at sub-divisions could not work together. If we have the one, we must abandon the other. If we have the former, we give local self-government to the head-quarters sub-division only, and we exclude the other sub-divisions indefinitely from it. If we have the latter, we give all the sub-divisions the same privilege. The Lieutenant Governor has therefore made the Local or Sub-divisional Board the basis of his scheme.

6. The non-official section of each Local Board should consist of two members from each thannah, if possible, or, if Local Boards this cannot be secured, of a number of members calculated on that proportion. The Chairman should be, in the head-quarters sub-division, a Joint, Deputy, or Assistant Magistrate, nominated by the Magistrate of the district; in other sub-divisions the sub-divisional officer. The High Court have very properly objected to judicial officers holding posts involving so much executive responsibility as the vice-chairmanship of a Road Cess Committee. It is quite essential that the head of the Local Board should be an officer of Government accustomed to the transaction of public business. Without this, confusion and neglect would inevitably occur. The ample representation of non-official members on the Board would render it impossible for the Chairman to monopolize its powers. The only ex-officio member of the Local Board besides the Chairman would be the Deputy Inspector of Schools. Each Local Board should elect its own Vice-Chairman. The general proportion on Local Boards throughout the district should be not less than two non-official members to one official member. Endeavours should be made to secure this proportion on each Local Board; but there might be cases where this would be inconvenient, and it would be sufficient to ensure that in the aggregate of the members of Local Boards throughout the district the proportion of not less than two-thirds and one-third is observed.

7. As a general rule appointment to Local Boards must be by nomination—by Government in the first instance, and by Government or the Board itself on the occasion of vacancies. Objections have recently been taken in one important municipality to an invitation to nominate members for the approval of Government. It might, however, be provided that in certain cases Local Boards might be authorized to nominate, for the approval of Government, members to fill vacancies, the votes being taken by ballot. The members first appointed should remain in office for three years. Afterwards members should retire in rotation, one-third every year, but retiring members should be eligible for re-appointment.

.8. Though, however, as a general rule, appointment must be by nomination, Sir Ashley Eden considers it very desirable that some provision should be made for election. If this were omitted the measure would not be complete, and, with the safeguard of a property qualification for voters and candidates, the experiment might well be tried in one or two places. The qualification for voters might

be the payment of Rs. 25 road cess or Rs. 20 license tax, or proof, to the satisfaction of the Magistrate of the district, of income from other sources than land amounting to not less than Rs. 1,000 per annum. For candidates Sir Ashley Eden would insist on the possession of landed or house property within the area to be represented of the value of not less than Rs. 1,000 per annum. It is important that representatives of rural areas elected under the Act should have a substantial stake in the locality which returns them. The experiment might be tried in one or two thannahs in the Hooghly, Howrah, or the 24-Pergumahs Districts. If it failed, the provision might be withdrawn from the place in question, and no harm would have been done. To extend the system of election indiscriminately, however, would be to court failure. The people at large would take no interest in the elections, and there would be a serious danger of the work passing into the hands of men who would throw discredit on the system.

9. The District Board should consist of two delegates elected by each Local
Board, where the jurisdiction of the latter extends
over not more than three thannahs of three

where it extends over four thannahs, and of four where it extends over more than five. As the District Board will have control over education in municipalities and over provincial and district roads passing through them, municipalities should be duly represented; two delegates being sent by each first class municipality and one by each second class municipality with a population of 5,000 or more. The proportion of official to non-official members being observed in regard to the aggregate number of members of Local Boards and the delegates being elected by their own Boards, it is unnecessary to insist on any fixed proportion being observed on the District Board. It would be inconvenient to secure this, and to attempt it would be at once to invade the right accorded to the Local Boards of electing their own delegates. The Chairman of the District Board should be the Magistrate of the district. The

#### BURDWAN DISTRICT.

	BURDWAN DISTRICT.
Local Boards.	District Board.
Head-quarters Sub-division- Chairman Members (2 each from 8 thannulis)	Chairman I Four Chairman of Local Boards, District Superintendent of Police, Civil-Surgeon, and Deputy In-Delegates - 7
Chairman Members (2 each from 3 thaunabs)	Head quarters (8 thannahs) 4   Raneegunge (3 ,) 2   Cutwa (3 ,) 2   Cutwa (3 ,) 2   Cutwa (3 ,) 2   Eurdwan Municipality (1st class) 2   Dainhat Municipality (2nd class) 1   Raneegunge Municipality (2nd
Chairman  Members (2 each from 3 thannals)	Class) 1 1 Cutwa Municipality (2nd class) 1 Cutna Municipality (2nd class) 1 6
Chairman Members (2 each from 3 thannahs)	1 6

Chairmen of all Local Boards, the District Superintendent of Police, the Civil Surgeon, and the Deputy Inspector of Schools should be the only other ex-officio members. The Sanitary Commissioner, the Inspector or Assistant or Joint Inspector of Schools, and the Divisional Superintendent of Works should be entitled to attend meetings of the District Board, but they should have no vote. An example of the application of these proposals is given in the margin. It will be seen that the District Board consists of 24 members, of whom only 8 hold their appointment ex-officio.

Board should be the Magistrate of the district. This is an indispensable condition. The District Officer is the mainspring of the administration, and it is absolutely essential that his position should be upheld in its integrity. Experiments in tocal self-government will be very valuable as a means of educating the people in the conduct of affairs, but they must not be allowed to weaken the frame-work of Government. In the day of trouble Government must look to its District Officers, and not to District Boards, to uphold its authority and carry out its orders. There is no reasonable doubt, moreover, that the great mass of the people would have no confidence in any system of management from which the head of the district was excluded, or in which he held a subordinate place, and that they would attach no prestige to a Board constituted

under such a system. Any one who knows the country knows that the District Officers possess in a remarkable degree the confidence and respect of the people. The District Boards should elect their own Vice-Chairmen, subject to the approval of Government.

#### (2) .- Departments and Funds to be administered by Boards.

- 11. The next question is the funds to be made over to the Boards and the departments of the Administration to be entrusted to their management.
- 12. Provincial Roads would be made over in all cases. These roads are very PUBLIC WORKS.

  important lines of District, as well as Provincial, communication; in many cases they pass through district, and the people of the district are keenly interested in their maintenance in good order. Ample checks, it will be observed, are provided further on. As a rule Provincial Buildings could not be made over with any advantage, though in particular cases, where small works had to be carried out and there was no provincial establishment, it might be possible for the Public Works Department to enter into arrangements with the District Boards, paying them of course for the services of their staff. Under Act VI (B. C.) of 1880 the *Drainage* Commissioners appointed to carry out any scheme must number not less than seven, of whom at least four must be holders of lands to be affected by the scheme or managers on behalf of such holders. As such schemes affect not only the productiveness of the lands drained, but also the salubrity of the surrounding country, it might be convenient to appoint the Local Board, or one of the subordinate Committees to be referred to further on, to be Commissioners under the Act. It is also proposed that in some districts the maintenance of Embankments and the control of Irrigation works should be entrusted to the Boards. As in the case of Provincial Buildings, however, no absolute rule could be laid down in these cases, and it will be sufficient to take a general power under the Act.
- 13. FERRIES are obviously a branch which could well be transferred to local management. This would necessitate a change in the law for districts brought under the new Act.

  At. present some municipalities enjoy a very large income from ferries. In the Lieutenant-Governor's opinion, however, when a ferry is situated on a District Road, even if it lies within municipal limits, the proceeds should, as a rule, go to the District Board, which should be charged with the general control of district highways, contributing funds to Local and Municipal Boards for the maintenance of such portions of the roads as fall within their respective jurisdictions. Power, however, should be reserved to Government to direct a special distribution in special cases.
- POUNDS.

  POUNDS are eminently a branch which could with advantage be entrusted to the control of Local Boards. There is no doubt that a vast amount of extortion is practised in the interior in regard to impounded cattle. The gomashta's cutcherry is largely used as a pound, and cattle-trespass fines form not the least of his perquisites. If pounds were more numerous, and were made over to the management of local punchayets, large sums that are now appropriated by zemindari officials would be made available for sanitation and public purposes. The proceeds should be strictly spent on roads or other improvements within the area served by the pound, under the system referred to below. This, it is to be observed, would require an alteration of an Imperial Act.
- 15. One of the most important functions that the Local Boards could pervillage sanitation. form would be the gradual improvement of VILLAGE
  DRAINAGE, VILLAGE SANITATION, and VILLAGE WATER-SUPPLY. Simple provisions could be inserted in a special
  chapter, and the Local Board of any place to which the chapter might be
  extended could be authorized to frame bye-laws and publish them after confirmation by Government. Mr. Beames, Commissioner of Burdwan, gives the
  following very interesting account of a system under which some punchayets

raise subscriptions from the villagers and apply them to village sanitary improvements and roads:-

In some parts of the Serampore sub-division there are very large and populous villages, among the inhabitants of which are many gentlemen of high intelligence and business habits. Some are retired officers of Government, others are pleaders and merchants, who go daily to their places of business in Calcutta. These gentlemen have undertaken the office of punchayet under the Village Chowkidari Act, and finding a very great demand and necessity for sanitary improvements in their villages have availed themselves of the influence acquired by their appointment to induce the villagers to subscribe for such purposes. They have built culverts, made roads, and drained dirty places—all with funds freely contributed by the villagers. No possibility of oppression exists, as the villagers from daily contact with the outer world are far too well aware of their rights to permit themselves to be oppressed.

Here and there a refractory villager refuses to subscribe, or cannot be induced to sacrifice some little corner of his holding for the purpose of making a drain, or refuses to put a stop to some nuisance which is offensive to his neighbours, on the ground that the punchayet has no legal authority. The sub-divisional officer, Mr. Carstairs, has in all cases supported these enterprising punchayets in every legal manner; but both he and they feel that some authority from Government is necessary to enable them to carry out the wishes of the majority. They do not wish to be made into municipalities or even unions, not being prepared to bear the burden or undergo the labour involved in maintaining municipal institutions. All that is necessary is that some addition should be made to the Village Chowkidari Act, or a chapter added to the Municipal Act.

This beginning, modest though it is, promises good results, and the chapter of the law relating to this subject might legalize the levy of subscriptions for these purposes up to a fixed maximum. The punchayets could then take the form of the subordinate committees, to which reference will be made in the next section. In order to help the funds raised for these village improvements, the Lieutenant-Governor proposes to make over, with the management of pounds the receipts from this source, without any corresponding reduction of the general district grant. The net revenue thus sacrificed, if this system were adopted throughout the Burdwan and Presidency Divisions, would be about Rs. 60,000. This would be a substantial contribution to village improvement, and the Lieutenant-Governor considers that it would be a judicious sacrifice of revenue.

There is no head of MEDICAL receipts that could with any advantage be made over to the District Boards. The heads are "Medical College Fees," "Hospital Receipts" (Calcutta and Lunatic Asylums), "Lunatic Asylums" (sale proceeds of manufactures), "Medicines, &c., of Civil Surgeons," "Contributions," and "Miscellaneous." In regard to their own hospitals and dispensaries, however, District Boards might be empowered to fix a charge for paying patients, and they might have legal power, such as the English law gives (section 132), to recover from a patient who is not a pauper any expenses incurred in maintaining him in the hospital. The only part of medical expenditure that can be made over to them is the present expenditure of Government on hospitals and dispensaries outside municipalities. This should be made over to them as a fixed grant. They would still work through local Dispensary Committees. They would appoint their own medical officers from the Government list, subject to the approval of the Surgeon-General. They would be They would be required to submit to the Surgeon-General, through the Civil Surgeon, such returns as might be required by Government. The officer appointed might be the medical officer attached to a sub-division. In that case the Board could pay him such allowances as Government might direct.

17. Under EDUCATION the Lieutenant-Governor proposes to invest the District and Local Boards with extensive powers.
Indeed, the only branches over which they would have no control would be colleges, attached collegiate schools, normal schools, with attached model schools, medical schools, surveying schools, madrasahs, and schools for Europeans and Eurasians. Normal schools, being concerned with the training of teachers, should remain within the control of the Department, and indeed they are specially reserved to the Department under the Education Despatch of 1854. Schools of medicine and surveying, and madrasahs, are of too special a kind to be transferred. The high schools attached to colleges and the model or practising schools attached to normal schools are usually held in the same building as those to which they are attached, and must therefore necessarily remain under the same management,

Primary Schools.

Primary Schools.

Magistrate, subject only to the general control of the District Board and of the Director. Consequently, no change of system in the administration of the primary grant would be made without the sanction of the District Board and of the Director. Subject to that condition, the functions of the Local Board would extend over the whole field of administration, under the system as sanctioned. The Board would have the Deputy Inspector as its adviser and the Sub-Inspector as its agent. It would undertake the inspection of primary schools, conduct all ordinary examinations, and, subject to the general control of the District Board, determine all grants. Its action in all matters relating to the administration of the primary allotment would be determined by definite rules, to be drawn up by the District Board under the sanction of the Director. All bills payable from the primary allotment would be passed by the Local Board, after countersignature by the Deputy Inspector.

A certain number of primary schools, chiefly under missionary management, receive grants-in-aid, and they conveniently come under the same managery schools. The following rules, therefore, would ment as the aided secondary schools. refer generally to the administration of the grant-in-aid allotment. Every application for a grant, whether monthly or special, would be submitted to the Local Board, which, after such enquiry through the Deputy Inspector as might be deemed necessary, would forward it to the District Board. The District Board, on the report of the Local Board, would then deal with the application; and if it sees fit, would recommend a certain establishment, with a certain grant, to the Inspector. Should the Inspector accept the Board's recommendations, the Board would issue its sanction to the grant. Should they be unable to agree, the case would be referred to the Director for decision. The sanction to the grant would in every case be issued by the District Board. A statement should be drawn up by the District Board every year, showing for each school and each class of schools the grants in force or proposed for the ensuing year. A copy of this statement should be sent to the Inspector and the Director. For the purpose of this statement, the Deputy Inspector should lay before the Board an abstract of the results of the scholarship examinations of the three preceding years, so that the Board might know which schools were improving and which falling back, and regulate its grants accordingly. But each school should be dealt with separately, and no grant should be increased or reduced without the Inspector's (or in the last resort the Director's) sanction. The District and Local Boards would not generally interfere in the internal management of aided schools. The courses of study and standards of examination would be prescribed by the Department, and the managers of each school would be free to choose its own text-books out of the authorized list issued by the Central Text-Book Committee under the sanction of the Department. But the Local Board would always have authority to enquire into complaints of mismanagement-for example, complaints by teachers of delay in paying salaries; and the District Board, on the report of the Local Board, might suspend a grant pending enquiry. It might also suspend a grant on the Inspector's recommendation to that effect after visiting a school; but no grant should be cancelled without the agreement of the District Board and the Inspector. In case of disagreement the Director would decide. The appointment of every teacher in an aided school would be subject to the approval of the Inspector. The bills for grant-in-aid would be passed every month by the District Board after countersignature by the Deputy Inspector, and would be payable at the treasury.

With Government vernacular schools may be included, firstly, the few Government Government Vernacular Schools ment primary schools established in backward places; and, secondly, hose (so-called) Government middle English schools which are really vernacular schools, with an English class attached at the expense of the pupils. These schools would be transferred to the management of the Local Boards to be administered either directly or through a Committee. The theory of them is that they are the pioneers of education above the primary standard in backward places where the grant-in-aid

system will not apply. There is, therefore, in general no certainty of a local Committee being formed. If in any place the materials of such a Committee exist, its formation should be encouraged; and in that case the management of the school should be made over to the local Committee under special rules. It would be provided that the course of instruction and standards of examination should be settled by the Department, and that no teacher could be appointed without the approval of the Inspector, who would see that the teachers trained in his normal school were properly provided for. When a school is either declared to be unsuccessful, or is judged to have fulfilled its purpose by paving the way for an aided school, it is removed, with its staff and grant, to another backward village. This removal the District Board would effect. Subject to the sanction of the District Board and of the Inspector, the Local Board would fix or modify the scale of establishment, within the limits of the net grant, appoint teachers, and permit the addition of an English class at the expense of the pupils. The balance in favour of each school would be placed to its credit for the following year; and the District Board might either spend it upon the particular school, or transfer it to another school of the same class in the district which might not have sufficient funds for its requirements. The monthly bills of each school would be passed by the Local Board after countersignature by the Deputy Inspector.

The management of Circle schools would follow that of Government vernacular schools, it being provided that the circle grant should be strictly confined to its legitimate purpose, namely, the raising of private pathsalas to a higher standard by means of itinerant Government teachers. The grant should not in any case be merged in the primary allotment. But as in some divisions these teachers have a separate gradation system of their own, extending over several districts, it would be necessary to arrange for transfers of funds by the Director,

on the report of the Inspector, so as to provide for promotions.

The chief administrative difficulty in the way of transferring High English or Ziliah schools to the direct management High English Schools. High English Schools. of the Boards arises from the fact of the teachers being borne on the graded list. There can be no doubt, however, that the power of managing these schools would be specially appreciated by The difficulty may, perhaps, be overcome by the following provisions. The inspecting staff should be separated from the teachers on the graded list. The Boards would be required to appoint to vacancies teachers from the graded list so long as candidates considered eligible by the Director were available. Promotions would be given from grade to grade successively, and the Director of Public Instruction would have a power of veto on all nominations by the Boards, whether from the graded list or not, for reasons to be stated by him. The Local Boards would have charge of all high English schools except those situated at the head-quarters of a district. These would be under the immediate management of the District Board, who might delegate its functions to a special sub-committee. The Boards would have authority to suspend, reduce, or dismiss any teacher with the sanction of the Director. The standard of the final examination in zillah schools is fixed by the University, and the course of study throughout the classes is settled by the Inspector. These arrangements should continue. But the Board should be empowered to make recommendations and proposals affecting these excepted points.

At the same time these arrangements must be 'considered as provisional only. The Boards would not in any way correspond to the idea of "private effort assisted by grants-in-aid," which is foreshadowed in the Despatch of 1854 as the educational policy of the future. They would still be in a measure Government Boards: partly or wholly appointed by Government, disposing of Government funds, and dealing directly with the Government treasury in pespect of the allotments made to them. What is ultimately required is private Committees constituted ad hoc; associations of private persons interested in the maintenance of the high school, and ready and able, if need be, to relieve Government of its direct management. Out of about 200 high schools for natives, only 48 are Government schools; and it is difficult to believe that private associations cannot, at the head-quarter stations of districts, undertake those duties of management and control which are discharged without-difficulty in much smaller and less important towns. It would be provided, therefore, that

Government might at any time give notice that after a certain term of years it would withdraw from the direct management of the local school and transfer it to private control.

The Lieutenant-Governor has considered the question whether the zillah school at head-quarters might not be made over to the management of the municipality. On the whole he considers it desirable that the District Board should have control over education generally throughout the district, and over this class of schools in particular. The zillah school, though generally situated within a municipality, cannot be regarded as a local school in the sense in which a pathsala or Government vernacular school within municipal limits is a local school. Unlike the latter class of schools, it draws its supply of pupils from the whole district. Indeed its name indicates that it is intended to be a district school, and not a mere local town school. Probably in any case a majority of the pupils are residents of the municipality; but it may be conjectured that the fact that the municipalities of Bengal contributed only Rs. 70 to the support of zillah schools in 1880-81 is attributable to the knowledge that the school exists for the benefit of the district and not of the town only.

But while the zillah school is really a school for the whole district, it is at the same time indisputable that the municipality benefits greatly from its establishment. At least one-half of the pupils of every zillah school are residents of the Municipality, and in some cases a larger proportion. The Lieutenant-Governor, in taking over the cost of the police of municipalities, declared that municipal funds would be required to contribute to the support of schools situated within municipal limits. The Director will now be requested to fix the contribution to be made, calculated on the proportion of pupils resident in the municipality to the gross number of pupils in the school. The Government grant to the District Boards will be reduced by this amount. The exact amount to be contributed for each school should be annually revised

on the same principle.

With regard to education of other kinds, middle and primary, it should be the duty of the District Board to enquire into the sufficiency of the provision made in each municipality within the district, as well as into the sufficiency of the support rendered by the municipality to the existing schools. The Board should then state its views and recommendations to the municipality; and if the municipality declined to accept its recommendations, it would be open to the Board to make a representation on the subject to the Commissioner, with a view to the consideration of the subject with the Municipal Budget. Municipalities will also be required to undertake the whole expenditure now borne by Government for the support of Government vernacular schools within municipal limits.

The Sub-Inspectors of schools would be servants of the Boards, and the same rules would govern their appointment, promotion, removal, and the like, as have been suggested for The Deputy Inspector, who must continue to be the chief educational officer of the district, would have relations both with the Inspector, whose subordinate he would be, and with the Boards. On the one hand, he must be the agent or deputy of the Inspector, enabling the latter to maintain his necessary connection with schools of every class throughout the district; on the other, he would be the chief adviser of the Boards in matters of education, though not subordinate to them. The Sub-Inspectors would not be formally subordinate to him; but his relations with the Inspector, to whom they would partly look for promotion, and to the Boards, whose servants they would be, would invest him with quite sufficient authority to enable him effectively to supervise their work. The correspondence of the District Board on educational matters should be carried on through the Inspector. In order to enable him to thoroughly supervise the educational work of his circle, it is necessary that he should possess complete information; and this could only be secured by making him the channel of communication with the Director, as he actually is under the present constitution of the District Committees. The Director similarly should correspond with the Board through the Inspector. The salary and travelling bills of Sub-Inspectors would be passed by the Local Board on the countersignature of the Deputy Inspector. The Deputy Inspector's bills would be passed by the Inspector.

The lower primary scholarship examination, which is held independently for each district, should be conducted by the Deputy scholarships should be made by the Local Board on the recommendation of the Deputy Inspector. The scholarship bills should be drawn by the head-master of the school in which they are held, and passed for payment by the Local Board. The examination for upper primary and for middle scholarships should be held by the Inspector for all the districts in his circle, the existing orders on the subject being maintained. These scholarships, of which each district has a special number assigned to it, should in general be awarded by the Inspector strictly on the results of the examination. It should, however, be open to the District Board to make a representation to the Inspector, before the award, in favour of particular schools or tracts which it may think deserving of special encouragement by reason of their less advanced state, and the Inspector should be authorized to consider such a recommendation in making his award. The stipends for these scholarships should be drawn under the existing rules.

At the close of the year the District Board should draw up an annual report of its operations, which should be sent through the Inspector to the Director.

A great part of these provisions would be embodied in rules framed under the Act, and would find no place in the law itself. The Lieutenant-Governor has, however, thought it well to enter into some detail in discussing the question of education, as there is perhaps no branch in which more interest will be taken by those to be entrusted with the management of local affairs.

Under the head MISCELLANEOUS, the only head of receipts and expenditure that could be made over with any MISCELLANEOUS. advantage is "Staging Bungalows." Some officers have alluded to "Rewards for the destruction of wild animals." But this is advantage is "Staging Bungalows." purely a matter of routine. Government fixes the rates, and the Magistrate is

the person who can most conveniently make the disbursements.

19. Under MINOR DEPARTMENTS the receipts are derived from emigration fees and receipts from Botanical Gardens and MINOR DEPARTMENTS. Cinchona Plantations. None of these could be made over. Of the expenditure heads "Public Exhibitions and Fairs" would appear to be a proper item for transfer. None of the grants, however, apply to districts likely to be brought under the Act. The same observation applies to "Grants to Public Gardens."

The Lieutenant-Governor considers that in most cases TRUST Funds other than those relating to religious endowments In some cases, however, the terms of the Trust would bar this, and

only a general power should be taken.

The grants to be made over to local control would be based on the amount now expended by Government on the different services, reduced (except in the case of pound receipts above referred to) by the amount of receipts surrendered. Adjustments would also be made on account of contributions to educational funds to be made by municipalities. It would be necessary to provide that in cases where Government made a grant for such a work as a feeder road to a railway, it would add to the district grant a fixed percentage on the initial cost to provide for repairs. Finally, the Lieutenant-Governor trusts that Government would be able to make an annual grant of Rs. 5,000 to Rs. 10,000 to each district brought under the Act, to enable the Board to pay for an efficient Secretary and to bear the charges for travelling allowances and the like.

#### (3.) - Relations of District Boards to Municipal Committees and Local Boards, and of Government to District Boards.

22. Except in regard to Education and Provincial and District Roads, Municipal Committees should be entirely indepen-Municipalities. dent of the District Boards. Even if the details of Municipal Administration were such as could be efficiently supervised by a Board whose members would be drawn from all parts of a district, the fact that the municipality raises its own funds would be a sufficient bar to any

such proposal. At the same time the District Board will undoubtedly gain by the presence among its members of men of experience and business habits deputed to represent the municipalities.

23. The principle that should govern the distribution of powers between District and Local Boards is that all matters of purely local interest should be left as much as would be included the preservation of uniformity of policy, should be decided

by the District Board.

24. The Local Board would submit a general scheme of work with its application for funds for each year. This would be considered by the District Board in allotting funds, and its general scope would be adhered to during the year. Within the limits of this scheme, and subject to the rules governing the administration of each department, the Local Board would have power to settle all matters of purely local interest, to decide on the establishment of new pounds, the execution of small drainage works, the repair of local roads, and the like. The Lieutenant-Governor considers that it would be very useful to give Local Boards the power to delegate its powers or any of them in any department or departments to subordinate committees formed on the model of the Parochial Committees under the English Public Health Act.

These Committees could be formed for any thannah, or outpost, or pergunnah, or cluster of villages, and they could administer the village-sanitation clauses of the Act, manage pounds, and superintend the construction and repair of village roads. The Committee might consist partly of members of the Local Board itself and partly of residents of the tract in question, selected by the Local Board. The Local Board would not thus be relieved of its own responsibility, and it would be able to alter the constitution of the subordinate Committee or to dissolve it at any time. Sir Ashley Eden believes that such a provision as this would be found extremely useful in developing local self-government, especially under such conditions as are described by the Commissioner of Burdwan.

25. The District Board would deal with repairs of all District, and of course of all Provincial, roads, with measures of drainage affecting more than one sub-division, with the grants to secondary schools, and so forth. It would allot funds to the different Local Boards for expenditure on local objects, and it would decide the general policy to be adopted—in such matters, for instance, as the method of distributing the grant for primary education. The District Board would again be bound to conform to the policy laid down by Government

in regard to questions of general administration.

26. Should the Local Board fail to make proper provision for any necessary object, whether it be a road, a school, or a dispensary, the District Board would, on being informed by the report of any of its inspecting officers—its Secretary, District Engineer, or other—or otherwise, make enquiry, and if satisfied that the work was

necessary, and that funds were available for it, make an order limiting a time for the execution of the work by the Local Board. In the event of the work not being performed within the time fixed, the District Board would cause it to be executed and recover the cost from the Local Board. In the same way, the Commissioner of the Division, on the report of the Divisional Superintendent of Works, the Inspector of Schools, the District

Works, the Inspector of Schools, the District Officer, or otherwise, could call upon the District Board to do any work, or take certain order with any school or class of schools, or to provide medical aid, within a fixed period, and in default might cause the work to be done, or, in extreme cases, report to Government in view to a withdrawal of the power of the Board in regard to education, medical charity, or the like. This would be following the lines of section 299 of the English Act and placing the Commissioner of the Division provisionally in the position of the Local Government Board. Section 318 of the Municipal Act gives the Lieutenant-Governor similar powers on the report of a Committee appointed by the Commissioner with Government sanction. But it does not appear to be necessary that everything should be in the first instance reported to Government, though it would always be open to any Board aggrieved by the

does not apprehend that such applications would be numerous. The introduction of this measure will be attended by a great increase in work, and it is very desirable that we should not centralize too much, but should leave to the Commissioner of a Division a large discretion in the administration of the Act within his jurisdiction. This provision and the power of Government to withdraw any part of the Act or the whole of it from any district would be quite sufficient to protect the interests of the State.

27. The limit of cost within which District Boards should be permitted to undertake works without sanction must be settled Powers of sanction to works by rule. The scale must be fixed with reference. to the qualifications of the District Engineers. Commissioners should have the power of sanctioning works costing Rs. 50,000 or less. Though budgets should of course be prepared by the District Boards, the Lieutenant-Governor does not consider that it would be necessary to do more than require that copies should be supplied to the Commissioner. Each District Board should also furnish the Commissioner with a report of its operations every year, - the financial year being adopted, - and an account of its income and expenditure. This report and account should be published in the Gazette. Some officers are of opinion that the provisions of the Cess Act regarding interference with the budget are useless and vexations. Sir Ashley Eden considers that, in districts which are fit to come under the new Act, all display of interference should, as much as possible, be avoided. He entirely concurs in the view of the Government of India that it would be hopeless to expect any real development of self-government if District Boards were subject to check and interference in matter of detail. Powers of substantial interference are reserved for cases of necessity, and nothing more is really required.

#### (4.)—Establishment.

In regard to establishments, Sir Ashley Eden would follow the policy enunciated above. Some officers recommend that Government should have the power of making rules to regulate the employment of officers and establishments, so as to guard against the unnecessary multiplication of appointments. Sir Ashley Eden does not agree in this view. With two provisoes he would give the Boards free scope in regard to subordinate establishments. The first would be that the aggregate of salaries and absentee allowances of officers employed under the Public Works Department of the Board, including the proportion rateably charged against this head for the salary of the Secretary and for travelling allowances, should not exceed one-fourth of the income available for expenditure on public works during the year. The second would be that no new appointment on a salary of Rs. 200 per mensem, or more, should be created without the previous sanction of the Commissioner. As the power of Government itself to create a new appointment is limited to Rs. 250, the Boards need not complain if they are limited to Rs. 200. In regard to the higher appointments, moreover, of Secretary and Engineer, where special qualifications are required, it will be quite essential that Government should have a power of veto. The Local Government Board in England has control in the case of appointments of medical and other officers any portion of whose salary as paid out of moneys voted by Parliament. It is at least as desirable that Government should have control over the appointments of Secretary and Engineer to a District Board as that it should have the power of vetoing the appointments of similar officers under the Calcutta Corporation.

#### (5.)—General Provisions.

29. A schedule of rules to govern meetings and proceedings should be drawn up and appended to the Act as in the case of the English Act. These would require, amongst other things, timely circulation of a printed or written notice containing full information regarding the business to be transacted at the meeting. This is strongly insisted upon by more than one officer, and the

Lieutenant-Governor considers it a matter of the first importance. All members should have full and timely opportunity of considering and taking advice on all questions to be brought up for discussion. The rules would also provide for special and general meetings, the maximum interval between general meetings, the number of members required to form a quorum, the legal validity of minutes, and the like.

30. The formalities to be observed in making contracts should be specified. Those laid down in section 174 of the English Act of 1875 seem suitable for adoption with the necessary alterations. These include calling for estimates, giving public notice limiting tenders, furnishing full specifications, and, in the case of contracts of £50 or more, reducing to writing and scaling. The Chairman, or any piember of the Board to whom he delegates the power in writing for any special occasion, should have power to contract on behalf of the Board. Contracts for sums exceeding estimates already framed should only be entered into with the sanction of the Board accorded at a meeting.

31. There is a general opinion that the expenses of members in attending meetings of the Board should be defrayed. This is very necessary. Travelling allowance at the rate of four annas a mile by road and one and a half anna a mile by rail should be allowed to all nominated or elected members for journeys of more than five miles. Ex-officio members would draw their travelling allowance from Government under the existing rules. The bills of ordinary members would be cashed on the countersignature of the Vice-Chairman of the District or Local Board, as the case might be.

32. Finally, provision should be made for an audit sub-committee under each Board, and the strictest rules should be framed against incurring expenditure in anticipation of the sanction of the Board, except in cases of emergency to be generally described. The accounts would also be audited every year by the Examiner of Local Funds Accounts, and the result published in the Gazette, a copy of the report being exhibited in the office of the District, and of each Local, Board.

33. Such is the general scheme of legislation which Sir Ashley Eden would propose. He would gladly have initiated it himself, because he believes that if it is worked judiciously, and without too great an anxiety to force claborate provisions on districts which may not be ready for them, it will be successful. Some persons are of opinion that apathy and indifference on the part of the people will prove an insuperable obstacle to any attempt to interest them in local self-government. Sir Ashley Eden does not share these apprehensions. In many districts in Bengal there are able and energetic men who are willing to take a share in the management of public affairs. Their readiness to assist only requires judicious management and direction. If these men are properly encouraged and are treated with reasonable confidence, their interest in the work will increase, and their example will be followed by others. Sir Ashley Eden trusts that this will be the policy of the officers of Government in administering this Act, and that, though there may be some disappointments at first, the ultimate result will be a large measure of relief to the public departments and of lasting benefit to the best interests of the people.

## SCHEME FOR THE SUPPLY OF FILTERED WATER TO THE SUBURBS OF CALOUTTA.

No. 292, dated Calcutta, the 17th April 1882.

From-Colman Macaulay, Esq., Offg. Secretary to the Government of Bengal, Medical and Muncipal Department,

To-The Commissioner of the Presidency Division.

Since the receipt of Mr. Harrison's memorandum, dated the 31st October 1881, a copy of which was forwarded to you with endorsement No. 966, dated the 3rd December last, the Lieutenant-Governor has had before him, demi-officially, the question of supplying the Suburbs with filtered water from the Calcutta water-works. To assist the Municipal Commissioners of the Suburbs in arriving at an approximately correct estimate of the cost of the scheme proposed by the Chairman of the Calcutta Municipality in his note referred to above, Sir Ashley Eden placed the Services of Mr. R. B. Buckley, an Engineer of great experience in the Irrigation Department, at the disposal of the Commissioners.

2. From the papers now submitted it appears that the Suburban Commissioners have agreed to contract with the Corporation of the Town of Calcutta for an average minimum supply of 2,000,000 gallons of water per diem, to be increased, if required, to 4,000,000 gallons. They have also expressed their willingness to pay an amount proportioned to the cost to the Town Corporation of the water delivered in the Suburbs, but at a rate not exceeding two annas per 1,000 gallons. They also stipulate that all mains for the supply of water to the Suburbs, laid beyond suburban limits, shall be laid by and at the cost of the Town. The only points which now remain to be settled are (1) the method of distribution, (2) the cost of distribution, and (3) the manner in which the funds for providing and distributing the water shall be raised.

3. Under the scheme prepared by Mr. Buckley it is proposed that the northern parts of the Suburbs, lying

beyond the Baliaghatta Road, should be supplied with water directly from the town mains, and that to supply the southern parts of the municipality, three raised reservoirs should be constructed, each capable of holding half a day's supply. The quantity to be supplied from the town mains is estimated at 452,000 gallons per diem and that from the reservoirs at 1,548,000 gallons. The population to be thus supplied is reported to number 182,000 persons. The scheme also provides for a total consumption of 10 to 11 gallons per head, but the maximum draught is not to exceed two gallons per head in any one hour. With this draught it is expected that a head of 8 to 10 feet will be available at every stand-post. The scheme also provides for house-connections to a limited extent, with a maximum supply not exceeding one-fourth of the whole supply of two million gallons. The names of the streets to be laid with water-pipes are given in the annexed list.

4. The estimates prepared by Mr. Buckley include only such works as are to be actually constructed within the suburban area. The prime cost

Price of water at two annea per 1,000
gallons ... ... ... ... ... ... 91,000
Interest on capital at 4½ per cent. ... ... 29,478
Working oxpenses ... ... ... ... 7,500
Sinking fund at 1 per cent. ... ... 6,989
Insurance at ½ per cent. ... ... 8,468

Total ... 1,38,382

of the works is estimated roundly at Rs. 6,93,000, and the total annual cost including working charges at Rs. 1,38,352 as noted in the margin. It is stated that to meet this annual cost it will be necessary to impose a tax on the Suburbs at the rate of 5 per cent. on the annual value of the holdings situated in the

value of the holdings situated in the streets to be laid with pipes. The Lieutenant-Governor is doubtful of the necessity of paying for insurance on such works as these. Even a severe cyclone would probably not destroy the reservoirs, and he sees no other risk to which they are exposed. If therefore this item is struck out, the annual charge will be reduced to Rs. 1,85,000 in round figures.

5. A second scheme, prepared by one of the Suburban Commissioners,
Pundit Pran Nath Saraswati, has also
been submitted. The main object of this

scheme is to diminish the cost of the works so that no rate, or at most a very light rate, would have to be levied. It is proposed to effect this by limiting

† This is put down at two gallons per head per diem—a quantity which is quite insufficient.

the gratuitous supply to what is necessary for drinking and cooking purposes,† and charging the rich and well-to-do persons,

whose houses are supplied with pipes in connection with the mains, a fair and reasonable price for water consumed. The consumption would be determined by a meter, the cost of which, together with the entire cost of the bouseconnections, would be borne by the house-owners who would also bind themselves by guarantee for a short term of years to consume certain minimum quantities of water. The scheme also calculates on the Suburban Commissioners being allowed a monopoly of the sale of filtered water in the Suburbs for business purposes and for the use of the shipping in the port within suburban limits. At present the monopoly is held by the Calcutta Municipality, and it is extremely doubtful if they would relinquish it in favour of the Suburban Commissioners. For the gratuitous supply, it is proposed under this scheme that there should be 25 central points of distribution, viz. 10 groups of hydrants to be supplied from the Tallah pumping-station during the ordinary hours, and 15 reservoirs to be filled at night. It is also proposed that the houses to be supplied from the reservoirs should have iron or masonry tanks fitted in them to hold a day's supply, these tanks being filled during the

6. Both these schemes have been subjected to independent professional scrutiny, and preference has been given to Mr. Buckley's scheme, which is liberal, safe, and at the same time economical. The objections to the other scheme are that the supply of water, which it is proposed to give, would be insufficient, while the supply to private houses would be intermittent. On sanitary grounds the latter is a serious objection, as water stored in tanks and cisterns is very liable to contamination from various sources, even if the receptacles are more carefully looked after and more constantly cleaned than can be expected in the poorer houses in which they would be fitted. Financially, also, it is doubtful whether the latter scheme would prove successful, as it would throw a great part of the burden of the cost on a very small section of the population.

7. The Lieutenant-Governor considers that the scheme prepared by Mr. Buckley is in every way superior to that of Pundit Pran Nath Saraswatf, and, in view of the great importance of supplying the Suburbs of Calcutta with a sufficiency of pure water, he is prepared to give a grant of Rs. 1,70,000 in aid of the measure on condition that the work is begun by 1st January 1883. As the interest on capital forms only a small part of the annual cost, a contribution spread over a term of years will be more suitable than a single grant. Government will therefore give Rs. 50,000 for the first year, 1882-83, and Rs. 30,000 a year for the four succeeding years. This will enable the Commissioners to work the scheme for the first year with a 3½ per cent. rate.

8. I am now to request that you will be good enough to instruct the Chairman of the Suburban Municipality to lay this offer of the Lieutenant-Governor before the Commissioners, and to suggest to them that in the event of their consenting to take the water from the Calcutta Municipality at prime cost, the adjustment of the cost should be determined by an arbitrator appointed by each municipality with an umpire appointed by Government. The Lieutenant-Governor hopes that with the material reduction of the rate the Commissioners will agree to adopt the water-supply scheme prepared by Mr. Buckley, as it is absolutely essential for the health of the over-populated Suburbs that the inhabitants should be able to procure better water than is at present available.

Note on the probable Capital Cost of the Works necessary for a supply of two million gallons of Water in the Suburbs of Calcutta.

At the meeting of the Water Supply Committee of the Commissioners for the Suburbs of Calcutta, held on the 22nd November, I was requested to give a brief outline of the works necessary for the Suburban water supply and their approximate cost.

Conditions of supply.

2. The conditions of supply which the Committee laid

down were these :-

1st.—The maximum quantity of water to be at present provided for is 2,000,000

2nd.—The population to be supplied is about 1,64,000, resident in certain defined localities. It is to be assumed that a fringe outside these localities, estimated to contain about 10 or 11 per cent. of the above number, will draw water from the mains. So that the total number of people to be supplied is about 1,82 000.

3rd. - That the maximum draught on the mains is to be assumed to be 2 gallons per

head per hour.

4th.—That with this draught a head of not less than 8 to 10 feet should be available

at any stand-post.

5th.—That house-connections are not to be permitted as a rule, and that the total quantity of water, which is to be supposed to be drawn by house-connections, will certainly not exceed one quarter of the whole supply of two million gallons.

6th.—That the estimated cost of the works is to include only those works which will be actually located in the Suburban area. The cost of any works in the Town, which might be necessary to the supply to the Suburbs, is to be

borne by the Town Commissioners.

I pointed out to the Committee that in my opinion these conditions would not satisfy the requirements of the Suburbs for more than a Probable insufficiency of these condi-tions in a few years. few years, and that in spite of themselves 'the Municipal Commissioners of the Suburbs would soon find themselves

compelled to give more house-connections than they now intend to do, and that the provision of a maximum draught of two gallons per head per hour would not eventually satisfy the rate-payers. I still hold this opinion most firmly. I consider that it would be a wiser policy to lay down mains which would provide for a draught of four gallons per head per hour; but as it is evident that it is the desire of the Suburban Commissioners to bring the cost of the works to as low a figure as possible, and as I have no hesitation in saying that the conditions, enunciated in paragraph 2, will certainly be of great advantage to the Suburbs, and probably fully satisfy the requirements of the people for some years to come, I will admit that the Commissioners may be right in laying down conditions in which I cannot fully concur.

4. Since the meeting of the Committee I have gone more carefully over the calculations of the probable cost of the Suburban works. I am glad to say that I think that the conditions assumed may be fulfilled for a somewhat smaller sum than I then thought would

be necessary.

The proposal which has been made by the Town Commissioners to those of the Suburbs, expressed in Mr. Harrison's note of the 81st Proposal of Town Commissioners October, is that the Suburbs should construct, and pay for, all works lying actually in the Suburbs, and that the Town should deliver a certain quantity of water, not less than 2,000,000 gallons daily, at a definite price to be fixed hereafter, but which would be about 2 annas per thousand gallons. Paragraph 9 of Mr. Harrison's note proposes that the supply should be given in one of three ways:-

(a) Into raised reservoirs in the Suburbs.

(b) Into reservoirs attached to one or more pumping stations in the Suburbs.(c) Through metres into pipes leading directly to the Suburbs.

I am strongly opposed to the last of these proposals as far as the southern and south-eastern Suburbs are concerned. I am quite certain that, unless the Town provide very much greater pumping power than they propose, that the result would be most unsatisfactory to the Suburbs. Concerning the two former proposals (a & b I admit there is much room for argument. I know that it is the opiniou of some, who are most competent to judge, that the second of these (b) is the better. It may be so, but I prefer the former for these reasons :

1st.—Because there can be no doubt that there is ample engine power in the Town to supply during the night and during the slack hours of the day, the present requirements of the Suburbs.

2nd .- Because pumping stations in the Suburbs would entail responsibilities of which the Suburban Commissioners might prefer to be free

3rd.—It is certainly open to dispute whether pumping stations might not prove more expensive than raised reservoirs.

. 6. The scheme which I recommend is the first 'a) of those proposed by the Chairman Southern Suburbs to be supplied by of the Town Commissioners, namely, that of raised reservised reservo is. Voirs in the southern Suburbs. With the kind assistance raised reservo to.

of Mr. Sterndale, I have been able to divide the Suburban population approximately into suitable groups. These are shewn in the accompanying tracing. With his assistance, with that also of the Engineer to the Suburban Commissioners, I have selected the site shewn on the tracing which I think most suitable for the raised reservoirs. Those portions of the Northern and north-sastern Suburbs to Suburbs which lie north of the Baliaghatta road can be supplied from Town mains.

Casily supplied by the Tallah Pumping Station directly from the Town mains without any inconvenience to the Town. I should propose then to supply this area in that way. It is the area lying south of that road which I propose to supply from raised reservoirs. The following table shows the proposed divisions:—

Supply to be from	given	Distric	te.		Population according to last Census.	Total of each group.	area actually	Quantity of water to be supplied daily.	Quantity of water to be supplied during hour of greatest draught.	
•							piped.	Gallons.	Gallons.	
Wateunge servoir	,re- {	Garden Reach Watgunge Alipore	*** ***		19,032 18,844 13,488 15,869	66,683	49 700			
Rhowanipore servoir	re- { {	Bhowanipore Tollygunge Part of Ballygunge			38,002 8,924		48,590	534,000	97,180	
Ballygunge servoir	Pr-{	Ballygunge Banlapoorur Entally	000 00		14,490 18,895 26,929	46,926	43,730	480,000	87,460	
						60,323	48,610	834,000	P7,220	
		Total to be supplied b	y reservoir	TED	*****	491000	140,930	1,548,000	281,860	
Town mains	{	A fringe along the Cir- last group	cular road	in the	100000	25>194	Say 1,820	20,000	8,840	
Ditto ditto	{	Baliaghatta Matuicktollah Ooltadangah	*** **	1 921	80,259 9 889 7,977	40.100	!			
Ditto ditto	{	Chitpore	*** **		17.524 8,770	49,125 26,294	22,740	182,000 250,000	33,020	
	•	Total to be supplied	directly	from		201201	41,070	452,000	82,140	
			WD TOTAL			249,351	182,000	2,000,000	364,000	
		1100	1 20181		*****	ord 7,000 L	100,000	2,000,000	309,000	

It will be readily seen from this statement, that of the total Suburban population, which it is proposed to supply, more than three-fourths will draw water from the raised reservoirs and the remainder will draw from the Town mains.

7. There would be some difficulty in determining with accuracy the quantity of water taken by those portions of the Suburbs which draw directly from Town mains, namely, the whole area north of the Baliaghatta road and a fringe of houses along the Lower

Circular road. It would, no doubt, be possible to fix meters and to actually measure the water delivered, but this would be both troublesome and expensive; the total quantity which will be taken by the Suburban area north of the Balighatta road is comparatively so small that, in my opinion, it is not worth while, either in the interests of the Suburbs or of the Town, to attempt any measurement of it. I would suggest that it should be assumed that the Suburban area drawing directly from the Town mains will consume 452,000 gallons daily as given in the above table, and that the house-connections in that area be restricted to a certain number, say to 300, with ferrules of one-third the size of those granted in the Town. If this were done, and if all the remainder of the supply, drawn in the area concerned, were taken from the stand-posts, I do not think the Town would have cause to regret the arrangement.

8. The three raised reservoirs in the southern Suburbs would be supplied from Wellington Square Pumping Station. It would certainly be better if they could be made of dimensions to contain a whole day's supply. But it would, at first, be ample if they contained half that quantity. I would propose therefore to make the resorvoirs to hold altogether about 750,000 gallons. In order to give the full quantity of 1,548,000 gallons, which is the proportion of the 2,000,000 gallons, which will be consumed by the southern Suburbs, it would be necessary to fill the reservoirs twice a day. One of the three engines at Wellington Square would be quite capable of filling the reservoirs. At present all the three engines are idle from 6 r.m. to 6 a.m. and from 10 a.m. to 4 r.m., so that there is, in my opinion, no doubt it will be quite-easy for the Town, as far as the Wellington Square engines are concerned, to give the required quantity of water partly at night and partly between 10 a.m. and 4 r.m.

9. A question will arise as to whether it will be necessary for the Town Commissioners to lay down, within the town area, independent mains to

9. A question will arise as to whether it will be necessary for the Town Commissioners to lay down, within the town area, independent mains to supply mains.

Independent supply mains.

supply the raised reservoirs. It would be possible to utilise the present 18-inch main in Wellesley Street and the 12-inch main in Park Street for this purpose. If these mains were utilised certain arrangements would have to be made which might be troublesome. As the capital cost of these mains within the town area

would be borne by the Town, this question only indirectly concerns the Suburban Commissioners; the interest in the cost of the mains would of course be included, by the Town, in calculating the cost of the water supplied to the Suburba. In any case the Town Commissioners must lay down about 5,000 feet of 18-inch main; if entirely independent supply mains are laid they would have to be about 10,000 feet of 18-inch main, at, say, Rs. 8

2,500 feet of 12-inch main, at, say, Rs. 5 ... ,, 12,500

Costing altogether about ... ,, 92,500

So that the cost of entirely independent supply mains, which would certainly be more satisfactory to the Suburbs, would only entail an extra capital expenditure on the part of the Town of about Rs. 92,500. On the whole, then, if the Town Commissioners desire to have independent supply mains, I would recommend the Suburban Commissioners to raise no objection, although they are not, in my opinion, absolutely necessary, and they will increase the cost of the water to a small extent. With independent supply mains it would be more easy to gauge with accuracy the quantity of water actually taken.

- Hours of supply.

  Hours of supply.

  be no difficulty in continuing the supply from 6 A. M. to 6 p. M. if required, that is if the people did not exhaust the maximum supply before. It would be possible to do this without independent supply mains, but easier and more satisfactory with them.
- 11. In order to fulfil the conditions of paragraph 2, and on the assumption that the

  Town do all the work necessary in the town area, I estimate that a sum of Rs. 6,93,617 must be expended in the Suburbs, as detailed below:—

General Abstract of Estimate. Re. Total Re. 1. Land, say 3 beegahs, at Rs. 2,000... 6,000 Raised reservoirs to hold 250,000 gallons each, at Rs. 55,000 each, as per detail in Appendix A...

Turncocks, houses attached to reservoirs, 8, at Rs. 2,500 ... 1,65,000 3. 1,72,500 Supply mains (in the Suburbs only) 11,282 cwt., at Rs. 5 4. 56,410 Distributing mains, as per detail in Appendices B and C. Low pressure mains, 31,271 cwt., at Rs. 5 1,56,355 High pressure ditto, 6,995 cwt., at Rs. 5 ... 34,975 Collars, bends, branches, and reduces, 248 cwt., at Rs. 7 1,736 Branches and connecting pipes for stand-posts, 1,239 cwt., at Rs. 5 6,195 Allowance of 5 per cent. on foregoing for breakage, 2,550 cwt., at Rs. 5 - 2,68,421 9. Pipe-laying, as per Appendix B-Laying 2-inch pipes, 94,700 feet, at Rs. 20 per 100 18,940 3-inch 49,100 ., at ,, 20 9,820 22 33 ---at " 4-inch 29,800 20 5,860 23 at " 6-inch " 29,500 40 11:800 2.3 ... 24 at ,, 8-inch " 15,600 40 6,240 2.3 22 10-inch ,, 6,800 at ,; 40 2,720 22 at " 12-inch 8,500 401 3,400 22 000 15-inch ,, 1,700 at ,, 60 1,020 22 ... 33 16-inch ,, at " 7,500 60 2.3 64,300 ---Total 242,700 10. Sluice valves, as per Appendix D-8-inch, 9, at Rs. 40 360 ... ... 4. inch, 11, at ,, 60 660 ... . . . 6-inch, 5, at ,, 8-inch, 2, at ,, 90 ... 450 ... . . . 120 ... ... 240 10-inch, 5, at ,, 175 12-inch, 8, at ,, 175 250 ... ... ... 750 1,400 ... ... ... 15-inch, 2, at ,, 250 ... ... 500 . . . ... 3, at ,, 260 16-nuch, 780 . . . ... ... . . . Fixing ditto 460 ... ... 5,600

11. Stand-posts, 300, at Rs. 1 Laying pipes to, and fixing, sta		at Rs. 5	0 0 0	30,000	31,500
		Total	***	•••	5,48,321
Contingencies, at 10 per cent.	9 0 0		* * *	* * *	54,832
Total direct co	st of works in	the Subur	bs		6,03,153
Establishment, at 5 per cent.	4 0 0				,
Tools and plant, at 7½ per cent Interest on capital during the time	the works are	under	* * *	* * *	45,232
construction (say 2)	per cent.)		* * *		15,077
•	Total indirect	charges		1 + +	90,464
Grand total cost of w	orks in the St	iburbs	* * *		6,93,617

In this estimate I have put the pipes down at the rate at which I think they could be obtained at present. The price of iron is constantly varying. The Commissioners must make allowance for this possible variation if delay occurs in carrying out the works. I have reduced the thickness of the pipes as much as possible, and have provided small pipes at the extremities of each system. The ramed reservoirs I have provided for would be entirely of masonry and concrete. I prefer a combination of cast and wrought iron, as being lighter and more easily extensible. But I find that the cost of masonry is so much less that I do not feel justified in recommending the more expensive form which I prefer.

12. It will, I consider, be necessary to provide stand-posts with double self-closing cocks, placed about 800 feet apart on the pipes. From these two people will be able to draw water at the same time. If hydraunts on the stand-posts are not considered nesessary, some saving may

13. The working charges for the Suburban water-supply would be approximately as

	Monthly.	Yearly.
	Rs.	Rs.
Allowance to Engineer to the Suburban Municipality Superintendent of Water-Supply Works and Inspector of	100	1,200
house-fittings	80	960
Three Turncocks in charge of reservoirs, at Rs. 20	60	720
Repairs and maintenance of reservoirs, pipes, stand-posts, &c. Hire, working expenses, and maintenance of self-acting Tele-	300	3,600
graph from reservoirs, 7 miles, at Rs. 108		756
Office expenses, Analyses, Stamps, and Miscellaneous charges	* 4 *	264
Total		7,500

14. I am myself inclined to think that it will be found that the price assumed by the Chairman to the Calcutta Commissioners, of two annas per thousand gallons will more than cover the actual cost of the water. If, however, this figure be accepted, the calculation, which was laid before the Suburban Commissioners in Mr. Sterndale's note of 22nd of November, is as nearly correct as it can at present be made. The yearly cost to the Suburbs of 2,000,000 gallons daily may be thus estimated:—

			Rs.
Water, at 2 annas per 1;000 gallons	***		91,000
Interest on capital, at 11 per cent			29,478
Working expenses	0 0 0		7,500
Sinking Fund, at 1 per cent. on capital		4.0	6,936
Insurance, at   per cent. on capital			3,468
Total yearl	y cost		1,38,382

This would, I understand, necessitate a rate of 5 per cent. on the property within the area to be supplied.

R. B. BUCKLEY,

Mem. Inst. C. E.

CALCUTTA, December 6th, 1881.

APPENDIX A.

Estimate of Ruised Reservoir to contain 250,000 gallons.

Irens.	100	Quantity.	Rate.	Amount.
And a company of the			Re.	Ra.
Excavation of foundations		24,500 cubic feet	6	147
Concrete of foundations		8,200 ,,	35	2,870
Masonry in ,,		21,500 ,	32	6,880
Brick masonry to plinth		18,060 ,,	35	6,300
in superstructure	1 4 9	39 000 ,,	36	14,040
in cement		17,000 ,,	42	7,140
Concrete in lime		9,000 ,,	35	3,160
Concrete in coment		12,000 ,,	45	5,400
Roofing		7,000 superficial feet	60	4,200
Pointing, fencing, &c., &c	• • •			873
Total			• • •	51,000
Contingencies, say	* * *			4,000
Grand Total				55,000

APPENDIX B.

Abstract of quantities and sizes of Pipes in the Suburbs.

(J. 1986) (J. 1986) (J. 1986)			LENGTH OF PIPES IN PRST.							LENGTH OF DISTRIBUTING PIPE.		ath of	SUPPLY:	MAINS	length and uburbs	
District.	Popula- tion.	  2.inch	3-inch.	4-inch.	6-inch.	S-inch.	10-inch.	12-inch.	15- inch.	Low press sure.	High pres- sure.	Total length of distributing pipes in feet.	12-inch.	16- inch.	Orand total of pipes mains in Si	Renat
Area supplied by Wat- gunge reservoir Supply mains for Wat-	48,590	26,000	7.100	7,400	9,000	10,500	3,300	1.4.4.x.v.	1,700	65,000	*****	494441	000001	•••	*****	
guinge reservoir.  Area supplied by Bho- wanipore reservoir.  Supply mains for Bhowanipore reser-	45.7 80	14,100	11,100	5,200	7,400	800	700	1,800	4.1	41,100	400000	80.655	*****	7,500	th age	
voir Area supplied by Ballygunge reservoir	48.610	26,400	11,700	9,600	10,400	4,300	2,600	3,600	***	68,500		*****	1,500	***	*****	
Supply mains for Ballygunge reservoir			******	*****	4	*****	*****	*****		*****	*****	{	*300 1,300	144	******	• Maine il
Total low pressure	140,930	66,500	29,900	22,200	26,800	15,600	6,600	5,4(16)	1,700			174,700	,		*****	
Canal, north of Balin- shatta road Yea north of Circular	22,740	18,000	11,400	3,500		*****	*****	*****			32,900	112711				
Canul	16,510	10,200	7,800	8,600	2,700	******	200		***	*****	24,500	11114			*****	
ringe along Lower Circular road	1,820	112111	.,	*****		*****	100000			******		101111	*****	***	*****	This area of
Total high pressure	41,070	28,200	19,200	7,100	2,700	410.41	200			14.000		57,400	100 444			Lower O
GRAND TOTAL	182,000	94,740	49,190	29,300	29,500	15,600	8,800	5,400	1,700	*****	*****	282,100	3,100	7,500	342,700	t den brien

# APPENDIX C. Abstract of Estimate of Pipes in the Suburbs.

Diameter of pipes.				Length in foot.	in run, in-		Total weight.		, bends, , and re- pieces.	Branches and con- tecting pipes for stand- posts.	GRAND TOTAL.			
									Pounds.	Owt.	Pounds.	Owt.	Cwt.	Owt.
2-inch 3-inch 4-inch 6-inch 8-inch 10-inch 12-inch 16-inch	000 000 000 000 000 000	000	***	01. 04. 04. 04. 04.	200 000 000 000 000 000 000 000 000 000	bod non ode ode ode ode ode	66,500 20,000 22,200 25,800 15,600 6,600 5,440	8·5 10·76 16·0 27·5 86·0 56·0 125·0	565,250 321,425 389,800 737,900 540,000 369,600 351,000 312,500	0.040, 10.000 411000 00000 9.0000	000777 000777 00077 100111 00077 100110	200 2000. 2002. 2002. 2002. 2002. 2002. 2002.	**************************************	\$2000 \$2000 20000 20000 20000
	Lo	w pres	sure di	i <b>str</b> íbu	ting pipes	901	174,700	241 24	3,502,875	31,271	17,525	157	762	1,,,,,,
2-inch 3-inch 6-inch 6-inch	900 **** *** *** des	000 100 001	***	***	, , , , , , , , , , , , , , , , , , ,	**** *** ***	28,200 19,200 7,100 2,700 2,00	10 14 19 31 70	282,000 268,800 134,900 63,700 14,000	020400 020000 020000 020000	00000 00000 00000	000000	000000	000007 10000 1,0000 10000 10000
High prom	ure d	istribe	ating p	ipes		***	57,400	000000	783,400	6,995		age***	*	******
Aupply ma	ina		12-incb 16-incb		· · · · · · · · · · · · · · · · · · ·	***	8,100 7,600	81 185	251,100 1,012,500	11,992	*****	******	*****	******
			Tot	mi bigi	b pressure		68,000	*****	2,047,000	18,276	10,200	91	467	100111
				GRA	ND TOTAL	***	262,700	*****	5,649,875	49,546	27.725	248	1,289	51,035

#### APPENDIX D.

Abstract of number and size of Sluice Valves.

	Size of Valves.									
Area.	3-inch.	4-inch.	6-inch.	8-ineh.	10-inch.	12-inch.	15-inch.	16-inch.	Total.	
Area supplied by Wat- gunge reservoir	• • •	1	1	1	2	1 0 4			5	
Area supplied by Bhowa-	•••	3	1	•••	1	4 6 4			. 5	
Area supplied by Bally-	3	2	1	1	1	•••	* * *		8	
South-west of Canal	6	2 4 1				1 * 1			10	
North of Circular Canal Supply mains of reservoirs			2			8	2	3	13	
Total	9	11.	5	2	5	8	2	3	45	

#### List of Streets proposed to be Piped.

I.

Gun Foundary road. Cossipore road. Barrackpore Trunk road. Beerparrah road. Bharytollah road. Lockgate road, Sugar Works lane. Ramgopaul Ghose's lane. Cally Prosonno Singhec's street. Nowabputty street. Chitpore Ghaut lane. Prankissen Moekerjee's lane. Galiffe street. Chitpore street. Setpookur road. Cally Coomar Banerjee's lane. Ghosebagan lane. Shambazar Bridge road. Dhoneabagan lane. Ooltadangah road.

# II.

Gowresbere lane.
Bodri Das' Temple road.
Halseebagan road.
Hazee Jakariah's lane.
Moonsheeparah land.
Mannicktollah road.
Bahir Mirzapore road.
Gurpar road.
Gas street.
Hursee street.
Khoyroo Moonshee's road.
Sealdah road (north).
Baliaghatta road.
Canal West road.

#### III

Lime street. Sealdah road (south).

Moonsheebazar road. Gooreeparrah road. Shibtollah lane. Convent road. Canal street. Middle road Entally. Convent lane. Palmer Bazar road. Camardangah road (west). Chattoo Baboo's lane. Shumboo Baboo's lane. Puddopookur or south road Entally. Rubbia gully. Goaltolly road. Moocheeparrah road. Police Hospital road. Foolbagan road. Dehee Entally road. Puddopookur lane. Dehee Serampore road. Hateebagan road (north). Tanteebagan road. Hookawallah gully. Baniapookur road. Baniapookur lane. Heteebagan road (south). Jannagore road. Gorachand road. Tiljullah Butcherkhannah road.

#### IV.

Jhowtoliah road.
Kurryah road.
Beckbagan lane:
Ghoogoodangah road.
Peepulputty road.
Rowland's lane.
Ballygunge Store road.
Ahireepookur road.
Old Ballygunge road.
Ballygunge Circular road.

Kurryah Bazar road.

#### V.

Chuckerbere road (north). Puddopookur road. Russa road (south). Russa road (north) Lower Circular road. Badiaparrah road. Bhowanipore road. Peepulputty road. Kansareeparrah road. Sankareeparrah road. Muddon Paul's lane. Chowlputty road. Strand road Boloram Bose's Ghaut road. Sickdarparrah road. Nepaul Bhuttacharjec's lane. Kallighaut road. Kallighaut Bridge road. Gopaulnagore road. Gopaulnagore lane. Belvedere road.

Orphangunge road.
Alipore road.
Alipore lane.

VI.

Diamond Harbour road. Ekbalpore road. Coomedanbagan lane. Coomedanbagan road. Circular Garden Reach road Bhookoylash road. Ramcomul Mookerjee's street. Watgunge street. Moonsheegunge road. Puddopookur street. Koothree road. Nolooaparrah road. Shushteetollah road. Pakoortollah road. Meetapookur lane. Garden Reach road. Nemuckmehal Ghaut road.

## Memorandum on Suburban Water Supply.

On the 2nd December 1891 I had the honour of submitting to the Chairman of the Suburban Municipality a scheme for a water supply to the Suburbs, in pursuance of a promise made to the Members of the Joint Committee (Water-Supply and Finance) charged by the Suburban Commissioners in meeting by their resolution of the 22nd November 1881, to elaborate a scheme for the supply of filtered water to the Suburbs. My Note of the 2nd instant has been submitted to Mr. Buckley, and I have now had the advantage of perusing his Note, dated the 7th instant, on my scheme as aforesaid, as also his "Note on the probable Capital Cost of the works necessary for a supply of two million gallons of water in the Suburbs of Calcutta," dated the 6th instant. As a matter of convenience, I have in this memorandum written out my entire scheme with such additions and alterations as have suggested themselves to me after a careful perusal of the valuable remarks contained in Mr. Buckley's Notes of the 6th and 7th instant.

2. In discussing the question of a water supply for the Suburbs, we must now take it for granted that the water must be derived from the same source as that supplying the

own. The questions which remain to be discussed are the following:

(a). What is the quantity of water which should be purchased by the Suburbs at a fair rate from the Town Corporation?

(b). How should this water be distributed within the Suburban limits?

(c). What would be the probable cost of the scheme?

(d). How should this expenditure be met?

3. (a) As regards the first question, it is now admitted on all hands that we can never expect to have a supply on the Calcutta scale. Under the major project the Suburban supply of two million gallons to be distributed amongst a population of 1,84,000 or at a rate of 10.9 gallons per head. In Calcutta the present supply is, in round numbers, 7,250,000 gallons for a population of 4,00,000 or 18.12 gallons per head per diem, and after the water supply extension scheme for the Town has been carried out the supply would be increased to forty gallons per head per diem. Apart therefore from the question of pressure (wherein the comparison is immensely to suburban disadvantage) the major project necessitates the levy of a compulsory water rate of from 5 to 6 per cent. for a supply which would only be one-fourth of what the Town population would be enjoying per head. Under such circumstances it has struck me and some of my colleagues on the Suburban Boafd, whether we could not materially lower the cost of the public water supply by stinting it merely to drinking and cooking purposes, leaving the rich and the well-to-do to pay for the consumption of the water for domestic use in general. If by such means the cost would approach even loosely the sums which we have before this budgetted for water supply purposes, we would be quite justified in making the necessary grant for water supply from our general revenues. Even if such a grant were not feasible for any valid reasons, at the worst only a very light water rate would have to be imposed.

4. The entire population of the Suburbs is shewn by the last Census to number 2,51,439, of whom more than 20 per cent. are children up to the age of twelve years. The population does not certainly increase as a whole, and as the decrease in population has of late been simultaneous both in Town and Suburbs, there is no apprehension of the population of the latter being sensibly increased by the influx of emigrants from the Town.

5. This population, which for the reasons above stated may be treated for purposes of our present calculations to be equivalent to a population of two hundred twenty five thousand (225,000) adult persons, is, on the whole, as compared with the Town, much better circumstanced in the matter of a water supply for secondary domestic purposes. The Hooghly and the Tolly's Nullah, as also numerous tanks and wells sufficiently and safely meet the wants of the general population of the Suburbs for all purposes except cooking and drinking. The municipal scheme should therefore provide a gratuitous supply to the entire population for the primary domestic purposes of cooking and drinking, and at the same time offer reasonable facilities and encouragement to such of the suburban rate-payers as being advantageously located in that respect might be inclined to purchase water for all manner of domestic consumption:

6. The amount of water required for cooking and drinking purposes in tropical countries is fixed by Parkes on the basis of actual experience and existing regulations at 1 gallon per diem for each adult person. The consuming population being reckoned at 2.25,000, a daily apply of 450,000 gallons, 50,000 gallons for unavoidable waste, or in other words of 500,000 gallons would be amply sufficient to meet the legitimate demands of the entire

suburban population for drinking and cooking purposes.

7. It is evident, however, that a small supply like that of half a million gallons will not be financially successful in as much as the rate charged for the water by the Town Corporation varies inversely as the quantity. Now I take it that it must be an essential condition in any arrangement between the two Municipalities that the Suburbs should have the monopoly of all sales of filtered water within their own limits. In 1880 the Calcutta Corporation sold the tollowing quantities in the Suburbs for business purposes\*:—

				Gallons.
Bengal Ice Manufacturing Cck				2,910,592
Oriental Gas Company	***			211,068
Watson's Patent Press Company				190,506
		60 . 3		2 - 2 - 2 - 2 - 2
•		Total	8.0.0	3 312,166

Which is equivalent to a daily supply of 9,000 gallons per diem. During the same year we learn that 6,331.351 gallons of filtered water were sold by the Town Commissioners to the Shipping, which is equivalent to a daily consumption of 17,345 gallons. Bearing in mind the number and nature of Dockyards which line the suburban banks of the Hooghly, I think that it would be very safe to assume that 1,500 gallons daily would be required for the use of the Shipping which comes to port within suburban limits. Thus we can reckon

upon a paying consumption of 10,500 gallons from business firms and the Shipping.

8. It is evident, however, that the above increase is very small indeed, and would have no effect in lowering the rate for the price of the water. To augment our supply I suggest that the Suburban Municipality should invite offers for house-connections wherever their own or the Calcutta pipes are available. I have already stated that the Suburban Municipality should have the monopoly of the entire local consumption. In this way all the premises situated on either side of the Barrackpore Trunk road or on the suburban side of the Upper and Lower Circular roads would be allowed to be connected with the Calcutta As a matter of fact there have been applications for permission to connect such suburban houses, but hitherto the offers have been generally declined by the Town Commis-Besides the abovementioned roads, we must also include in our estisioners on principle. mate of house-connections portions or whole lengths of many other important roads in the Suburbs (the details whereof are given hereafter) which would have to be piped under this scheme for the purpose of connecting the central points of distribution with the Calcutta Water Works. For my own part, looking to the length of the roads, the nature of the localities, the high prices at present paid by non-residents for the filtered water and for the carriage thereof, the comparatively speaking low price at which the water could be delivered into each house, and further looking to the number of large establishments, public and private situated thereabout I am's sanguine that connected houses in the Suburbs will connected the state of the suburbs will connected the suburbs will be suburbs. sume a quantity of filtered water which, together with the 10,500 gallous mentioned in the preceding paragraph, will come up to one million gallons per diem. To make assurance doubly sure, I would notify that house-connections in the Suburbs should be allowed in priority of application. The applicants should undertake to bear the entire cost of house-connections (inclusive of a meter) and at the same time undertake for a short term of years to consume certain minimum quantities of water, at a fair price, which should be payable to the Suburban Corporation. Having thus calculated the exact minimum quantity required for private consumption, the Suburban Municipality should contract with the Calcutta Corporation for the total of the public and private supplies. I would stipulate therefore for a present daily supply of 1,500,000 gallons increaseable at the option of the Suburbs to three millions.

9. (b) As regards the mode of distribution, I propose that the public supply of half a million gallons should be given at 25 central points of distribution. The old system of suburban water supply was to excavate or conserve a good tank in every populous locality. Let clusters of stand pipes or masonry reservoirs charged with filtered water be placed wherever in former times a tank would have been conserved or excavated. Let the people resort

to these central points of distribution as they are now resorting to tanks. They are accustomed to fetch water from pretty long distances. The poor carry it for themselves, the middle class purchase it from water carriers (bharees or bhistees) and the rich have their own servants for the purpose. Looking to the high estimation in which filtered water from the Calcutta Water Works is held by the rich and middle classes of the suburban population to the great rush on the Town hydrants when the use thereof was gratuitous, and finally to the respectable quantity of 5 million gallons which suburban residents purchased in 1880, at high prices ranging from Rs. 1-9-7 to Re. 1-per thousand gallons at a great disadvantage of carriage, I maintain that it is reasonably certain that the better class of suburban inhabitants will all consume filtered water either from the central points of gratuitous tribution or by means of house-connections, in which latter case the additional facilities of consumption and the disappearance of carriage charges are sufficient equivalents for the initial cost of house connections and the current expense for the price of water at a fair and reasonable rate. Indeed in houses let for hire the proprietors will generally make the water-connections at their own cost, recouping themselves by a slight addition to the contal; and the tenant would only pay for the water consumed or undertaken to be consumed on the premises.

10. It might be doubted whether the 25 distribution points will sufficiently and safely provide for the necessities of the poor, it being a possible apprehension that from ignorance and laziness they will resort to the nearest source of water (irrespective of its purity) rather than go to a greater distance to fetch filtered water from the points of distribution provided by the Suburban Municipality. Now in the first place the servants and dependants in all premises where house-connections will be allowed, as also in most of the better class houses where filtered water will be carried on purchased for consumption, may be expected to be supplied with fixtered water for drinking and copking purposes. In the 2nd place we must remember that round about each distribution point there must be many poor people who will find it to be the nearest source of supply, and will therefore necessarily resort to it. Excluding these two classes of the poor, as regards the residuum, it must further be remembered that even the ignorant poor arc seen to exercise within certain limits an amount of discretion in the choice of potable water. Water which to the eye and to the taste is palpubly impregnated with impurities, the poor will not only shun, but they are seen every day to travel to a longer distance to secure potable water of greater apparent purity. we may also reasonably expect a third class of poor persons to consume filtered water from the central points of gratuitous distribution, although the latter might be a little more distant from their houses than less purer sources of supply.

11. Should it be found in practice that the distance of the central points acts as a preventive to the free use of the filtered water by any large number of the population in particular localities, it would be quite feasible to organise or to subsidise a system of water carts, with due regard to Hindu and Mahomedan prejudices, whereby filtered water would be hawked for sale from door to door in those less favoured localities. As a matter of fact carting is the most economical way of carriage when large quantities of water are concerned, and I feel sure that even if to the cost price of the water were added a sum sufficient in the long run to cover the outlay for construction and maintenance of these carts, the water could be sold at least as cheap (if not cheaper) than water ordinarily sold by bharees and

bhistees. Appendix A annexed hereto gives details about the location of the central points of distribution and the quantities to be dispensed at each of them. Subject to trifling modification or redistribution, they are put forth here to give a definite idea of the scheme. It being pronounced by competent authority that the northern and eastern portions of the Suburbs can be easily supplied during the ordinary hours by the Tallah pumps through the Calcutta mains, I would place at distribution points No. 1 to 10 clusters of hydrants sufficient in number and discharging capacity to allow the population to draw the quantities of water shewn in Appendix A, two thirds of the supply being drawn at the hours of 6 to 10 in the morning and the remainder from 3 to 6 in the afternoon. The supply for the southern and south-eastern portions of the Suburbs should be given through reservoirs slightly raised above ground to allow people conveniently to draw water therefrom whilst standing, as they now do from the Town hydrants. They are to be constructed of masonry and concrete as recommended by Mr. Buckley in his Note on the major project. They should be of the total capacity of 322,400 gallons and all filled in the night time. As regards the private supply by house connections, so far as the northern and eastern Suburbs are concerned I would taking advantage of the pressure from the Tallah Pumping Station, allow consumers so situated to draw water at their own convenience through meters. As regards the southern and south-eastern portion of the Subu be (namely the portion south of Baliaghatta road) in view of the great difficulty of providing water thereto direct from the mains at morning when water is most required both in Town and Suburbs, I would require house-holders in addition to other fittings to put up iron or masonry tanks of sufficient size to hold a day's supply, and all these would be filled at night from Wellington Square Pumping Station. The pipes should be of such size and weight as to be able to carry at present a million and a half gallous per diem and double that quantity in the future, under the conditions above stated.

18. To sum up, therefore, the main features of this scheme are as follows:—

i.—That there should be a public supply of half a million gallons of filtered water

distributed gratuitously within the Suburbs from 25 central points of dis-

- ii.—That for the northern and eastern Suburbs the public supply should be distributed by means of 10 clusters of hydrants, and that for the southern and south-eastern Suburbs it should be done by 15 reservoirs (of 322,400 gallons total capacity) built of masonry and concrete, slightly raised above ground and filled during night.
- iii.—That the Suburban Municipality should have the monopoly of all consumption of filtered water within the Suburbs, whether for domestic or for the business purposes.
- iv.—That house-connections with meters should be allowed at the cost of the proprietors in suburban premises along the Barrackpore Trunk road and the Upper and Lower Circular roads, and also along the pipes which will lead from the Calcutta mains to the 25 central points of distribution; a fair price being paid to the Suburban Municipality for water so consumed.
- That in the northern and eastern portion of the Suburbs connected houses
   should get a supply during the Town hours, whilst in the southern and
  south-eastern portion of the Suburbs the day's supply would be stored at
  night in tanks constructed or placed within the connected premises.
- vi.—That offers should be invited from house-holders to guarantee house-connections and the consumption, o minimum quantities, it being at present guessed that offers would be received for the consumption of one million gallens daily.
- vii.—That a contract be entered into with the Town Commissioners for the total of the public and private consumption (a minimum of 1½ and a maximum of 3 million gallons daily), the whole price of the water being paid in the first place by the Suburban Municipality, but a great portion of the same being afterwards recovered back on account of water consumed with house-connections.
- viii.—That the clusters of hydrants be put up, the reservoirs constructed, and that pipes leading thereto laid down by the Suburban Municipality at their own cost. The pipes being of sufficient weight and dimension to carry the supply of 1½ to 3 million gallons under the conditions already indicated
- 14. The questions upon which I ask Engineering opinion to be taken are the following:
  - i.—What would approximately be a fair charge per thousand gallons for the Town Commissioners to levy from the Suburbs for a daily supply of la million gallons, as also for one of three million gallons of filtered water delivered into connected houses and central points of distribution under the conditions involved in this scheme?
  - ii.-What would be the cost of pipes and pipe laying in the Suburbs?
  - iii. What would be the cost of the 10 hydrant groups and 15 masonry reservoirs?
  - iv.—What would be the current maintenance and establishment charges of the water supply under this scheme?
  - v.—What would be a fair price for the Suburban Municipality to demand from house-holders and also from business firms? Looking to the present practice of the Calcutta Corporation, would not the Suburban Municipality be justified in charging much more than the cost price for water taken by the Shipping and by business firms?
  - vi.—Generally such remarks upon the scheme as may be considered necessary.
- 15. It is posmature, before these questions are answered, to discuss the cost of the scheme and the means of raising the expenditure. I therefore postpone the consideration of these two matters till the receipt of a reply to the questions set out in the preceding paragraph.

PRAN NATH PUNDIT,

Member.

# APPENDIX A.

No.	Location.	Wards supplied.	No. of Gailons.
1	Junction of Octerparrah road	Cossipote	1 8,800
2	Ditto of Gun Foundry road with Cossipore road	Cossipore, Chitpore	17,600
3	Ditto of Bharcetola road with Lock Gate road	Chitpore	8,800
4	On Barrackpore Trunk road at northern foot up Barrackpore bridge.	Chitpore	. 8,800
5	On Belgachia road at the western foot of Dum-Dum bridge	Chitpore, Ooltadan-	16,900
6	On Ooltadangah road, at western foot of Ooltadangah bridge	Ooltadangah, Man- nicktolla.	17,900
7	Manicktolla road, at western foot of Manicktolla bridge	Mannicktolla, Balia-ghatta.	25,500
8	On Gas street, at the western foot of Narcoaldanga bridge	Baliaghatta	15,200
9	Junction of Narcoaldanga road with Eastern Bengal Railway	Baliaghatta	15,200
10	Ditto of Baliaghatta road with Rastern Bengal Railway	Balinghatta, Entally	43,000
11	Ditto of North Entally road with Canal street	Entally	27,500
12	Ditto of Bamapookur Police Station road with Baniapoo-kur road.	Baniapookur	18,900
13	Junction of Kurryah Bazar road with Tiljullah road	Baniapookur, Bally-	26,300
14	Ditto of Ballygunge Store road with Body Guard road	Ballygunge	7.300
15	Ditto of Ballygunge Circular road with Puddopookur road	Ballygunge	7.300
16	Ditto of Peepulputtee road with Rowland's lane	Ballygunge, Bhow-	26,500
17	Ditto of Russa road (north) with Puddopookur and Kan- auroeparrah road.	Bhowanipore	19,300
18	Junction of itussa road with the Kallighaut road	Tollygunge, Bhowa-nipore.	28,400
19	Ditto of Pecculputtee road with Bhowanipore road	Bhowanipore	19,500
20	Ditto of Alipore Jail road with Belvedere road (near Municipal office).	Alipore, Tollygunge	14,000
21	Junction of Kidderpore and Budge-Budge roads	Alipore, Ekbalpore	25,000
22	Ditto of Circular Gardon Heach and Watgunge roads	Alipore, Watgunge.	21,500
23	On Garden Reach Circular road, near Garden R ach Police station.	Garden Reach, Ek- balpore, Watgunge	43,000
24	Junction of Garden Reach and Chasadhobaparrah roads	Watgunge, Garden Reach.	25,200
26	Ditto of Garden Reach and Nemuckmehal roads	Garden Reach	12,700
	Grand Total		800,000

# FINANCIAL DEPARTMENT.

### FINANCE.

CALCUTTA, THE 18TH APRIL 1882.

#### RESOLUTION.

Tak orders of the Government of India have now been received on the Budget Estimates of this Government for the current year, and the Lieutenant-Governor has sufficient materials for framing a revised Regular Estimate of the receipts and expenditure of the year that has just expired. The Accountant-General's final report on the accounts for 1880-81 has not yet been submitted, but the preliminary issue is sufficient for practical purposes, and the general review of the financial position of the Province need not be postponed.

review of the financial position of the Province need not be postponed.

2. In the Resolution of 24th June last, Sir Ashley Eden examined the general results of the five years' contract of March 1877. He had only budget estimates to proceed upon in regard to the year 1881-82, but it was necessary that a general view should be presented of the effect of five years of extended decentralization upon the finances of Bengal In that Resolution it was said:-" Before the next budget can be prepared, it will be necessary for the Government of India to decide, on the experience before it, what policy it will adopt for the future; whether the system of decentralization is to be contracted, to be maintained on its present footing, or to receive a further development, and how the shares of the Imperial and Local Governments respectively in the advantages of gain and the responsibilities of loss are to be determined and adjusted." In effect the interval that has since clapsed has seen an important advance in the policy which has proved so successful in Bengal. A new contract has been made for another period of five years, under which the interest of the Provincial Government has been extended to Land Revenue, Forests and Assessed Taxes, heads of revenue hitherto reserved as Imperial. While therefore it will not be necessary to repeat in all its details the examination made last year of the growth of the revenues under each head during the five years of the 1877 contract, a brief review of the Provincial finances will not be without some interest. An examination of the actuals of 1880-81 will show how the province stood at the beginning of 1881-82: a consideration of the regular estimates of 1881-S2 will show approximately what were the results of the five years' contract of 1877 and what was the basis of the five years' contract of 1882; and a forecast of the revenue and expenditure of 1882-83 will show what will be the probable position of the province in the first year of the period upon which it has now entered.

# ACCOUNTS FOR 1880-81.

3. The Regular Estimate adopted in the Resolution of the 24th June 1881 assumed that the year 1880-81 had opened with a credit balance of Rs. 51,04,000, and closed with a credit balance of Rs. 49,01,000; that the total amount available for expenditure was Rs. 4,45,44,000, and that Rs. 3,96,43,000 had been spent. The actual result has been more favourable by Rs. 90,000. The amount actually available for expenditure was Rs. 4,47,83,000, and the amount actually expended was Rs. 3,97,92,000. The closing credit balance was thus Rs. 49,91,000. The following table gives a general view of the figures:—

	• • • • • • • • • • • • • • • • • • •	.011011125 10	V-0 5-	Regular estimate for	Actuals, 1880-81.
				Rs.	Rs.
	Opening balance			51,04,000	51,04,000
1	Revenue-				0 = 0 40 000
•	Proper ···	0 0 4		3,53,86,000	3,56,40,000
	Contribution			5,000	40,39,000
	Imperial allotment			40,99,000	40,00,000
	and the second	Total		3,94,40,000	3,96,79,000
		AND TOTAL		• 4,45,44,000	4,47,83,000

	(.	6		Regu	alar estimate for 1880-81.	Actuals, 1880-81.
En	penditure-	4		٠		
	Civil			0.00	2,58,02,000	2,58,72,000
						1
F2 1 11	,					
Public	works-			1		
	Interest		* 0 *		36,22,000	36,32,000
	Ruilways	* 1 *	• • •		20,11,000	18,98,000
	Irrigation a	nd Navigati	ion ,		25,70,000	24,34,000
	Other Publi		•••		44,42,000	47,60,000
					1,26,45,000	1,27,24,000
	Contribution	to the	Government	o.£		ę
	India	to one	Oovermment	OL.	10,00,000	10,00,000
	Contribution	to local fu	nds		1,96,000	1,96,000
					11.96,000	11,98,000
			Total		3,96,43.000	3,97,92 000
	Closing bala	nce		* * *	49,01,000	49,91,000
		GRAND	TOTAL		4 45,44,000	4,47,83,000
						-

The principal heads under which the estimate of receipts was exceeded were Other Public Works (Rs. 1,74,000), Law and Justice (Rs. 58,000), Irrigation and Navigation (Rs. 36,000), Marine (Rs. 35,000), Railways (Rs. 23,000), and Miscellaneous (Rs. 18,000). In the single instance of Education (Rs. 23,000) did the estimated receipts fall shirt of the actual receipts by more than Rs. 10,000. The difference of Rs. 60,000 between the Imperial allotment as calculated in the resolution of the 24th June, and the amount shown in the accounts, is due to a refund of Rs. 54,000 to the Government of India in consequence of the re-adjustment of the marine grant for two years 1879-80 and 1880-81; to an addition of Rs. 5,000 on account of the Imperial contribution towards the cost of the registration of frontier traffic; to an addition of Rs. 33,000 on account of the sale proceeds of cinchoua bark sold in London; and to a reduction of the credit under Inter-Provincial adjustments from Rs. 55,000 to Rs. 11,000. On the expenditure side the excess under Other Public Works (Rs. 3,17,000) was accompanied by savings under Railways (Rs. 1,13,000) and Irrigation and Navigation (Rs. 1,36,000). The estimates were also exceeded under Stationery and Printing (Rs. 73,000), Refunds (Rs. 38,000), Land Revenue (Rs. 30,000), and Police (Rs. 20,000), while under Stamps (Rs. 26,000), Law and Justice, (Rs. 25,000), Medical (Rs. 15,000), and Marine (Rs. 14,000), the expenditure fell short of the anticipated amount.

# Regular Estimate for 1881-82.

5. In the Resolution of the 24th June 1881, it was estimated that the year 1881-82 had opened with a credit balance of Rs. 49,01,000; that the total amount available for expenditure would be Rs. 4,55,41,000; that expenditure on all accounts would amount to Rs. 4.40,95,000; and that the year would close with a credit balance of Rs. 14,46,000. It has been shown above that the year 1881-82 actually opened with a credit balance of Rs. 49,91,000. It will be explained further on how the Imperial allotment came to be increased from Rs. 88,10,000 to Rs. 83,84,000. Had the original estimate under this head been maintained the year would have closed with a credit balance of Rs. 26,75,000. The regular estimate of receipts is Rs. 3,73,05,000, and the amount available for expenditure would have been Rs. 4,61,06,000. The regular estimate of expenditure is Rs. 4,34,31,000.

6. The following statement shows the estimate for the year 1881-82 as adopted in the Resolution of the 24th June, and the regular estimate for that year:—

REVOTUE.	0	Estimate, 1881-82.	Regular E-tiunte, 1881-82.	EXPENDITURE.	Ratimate, 1881-82.	Regular Estimate, 1881 82.
•		Re,	Ra.		Bu.	Ro.
Opening balance	144 194	49,01,000	49,91,000	1. Interest	37.69.000	33,71,000
4				3. Refun ta	6,46,000	7.50,000
f Land-Revenue	111 111	000181	*****	Mand Revenue	27,00,000	27,00,000
IIIPorests	844	*****	*** *	E Foresta		
IV Excise	141 441	80/00,000	95,00,000	@ Excise	2,70,000	2,70,000
V Assessed taxes	*11	8,50,000	8,50,000	7. Annensed taxes	1,00,000	1,00,000
VIProvincial rates	*** ***	35,62,000	35,50,000	8. Provincial rates		111 46
VLICustoms		74,000	19(1) (19(1)	9. Customs	7,00,008	6.95,000
VIIIBalt	***	1,35,000	1,60,000	10. Balt	22,000	22,000
1X.—Opium	100 400			11. Opium	Bal. 44	
XStamps	111 807	1,18,00,000	1,20,00,000	12. Stamps	4,34,000	4.34.000
XI Registration	444	10,50,000	10.00,000	15 Bogistostion	6,32,000	6.09,000
XIIIPost Office	441	44. 111	******	16 Dont (Man		
XV Miffor Departmen		1,65,000	1.91,000	17 Automaniatoration	14,78,000	1.00000
IVI Low and Justice	142 112	18,20,000	17,10,000	161 981 99	2,86,000	1:,86,000
		4,65,000	6.26,000	20 1	91.21.600	8,60,600
TALES NO. 1	144	12,00,00	11,00,000	20. Police		81,28,000
	4.6.6	5.12.000	5,30,000	03 97 1	41,00,000	41.32,000
XIXEducation	107				12,17,0:0	10,97,000
XX,-Medical	7 8 8 11	1,65,000	1.38,000	22. Relucation	26,90,000	26,77,000
XXI,-Stationery and pr		1,05,000	1,22,000	23. Reclosiastical	9,000	8,000
XXII.—Interest	* 0 t	15,000	20,000	24. Medical Gar	11,25,000	10,93,000
XXIII.—Superagnuation			411	25. Stationery and printing	8,64,000	9,37,000
XXIVMiscellaneous	***	6,55,000	6,55,000	26. Political		
XXVRailways	F81 101	32,10,000	32,19,000	27. Allowance		*****
XXVIIrrigation and Na	avigation	18,73,000	17.62,000	29. Leave allowance		
XXVIII Other Public Wo	orks	6,72,000	\$ 6,90,000	20. Superannuation	2,000	5,006
			1	30. Miscellaneous	Outes DO 9	3.15.00
		1		32. Railways	26,40,000	32.16.0W
		1		NO Transmitter	40,00,000	37,61,000
		1		84. Other Public Works	67,93,000	66.92,000
Contribution		2,000	2,000	(3 13 1	1,95,000	3,33,000
Contribution	***	2000		Contribution	2,00,000	0,00,00
	l'otal	3,68,30,000	3,73,05,000	Total	4.40.95.000	4.34,31,000
5 1 . 11 . 1		38,10,000	83.84.000	Clasina balanca	14,46,000	72,49,000
Imperial anotiment	***	40,10,000	(315,15,8,110,1)	Closing parance	1 9, 901, 19190	12, 59,1190
GRAND To	DP A T	4,55,41,000	5,06,80,000	GRAND TOTAL	4.85,41.000	5,06,80,000
GREAD I	OTAL	2,00,41,000	0,00,00,00	GRAND TOTAL	4,00,01,000	0.00,80,000
•				Provincial surplus(+)or deficit(-)	1	

- Rs. 87,00,000. The Government of India, however, entered only Rs. 83,00,000 in the Imperial estimates. In June last, in consequence of the favourable nature of the settlements for the year, the Lieutenant-Governor raised the estimate to Rs 90,00,000. Even this estimate, however, has been largely exceeded. When the regular estimate was framed the experience of the first ten months of the year appear to justify the anticipation that the gross receipts would not be less than Rs. 98,00,000. The receipts in February, however, for the first time during the year showed a falling off instead of an increase, and though in March a further rise is again shown on the receipts of the corresponding month in 1881, it is not probable that the gross revenue will be found to have exceeded Rs. 95,00,000. This estimate is exclusive of the share of the Bengal Government in the duty on Shahjehanpore rum. Under an arrangement with the Government of the North-Western Provinces a sum of about Rs. 55,000 on this account will be credited to this Government through the Imperial allotment.
- 8. Assessed Taxes.—The allotment of Rs. 3,50,000 made in 1880-81 for the administration of the license tax remained unaltered. The expenditure is shown partly under the same head and partly under the head of Refunds.
- 9. Provincial Rates.—The estimate of receipts from wards' and attached estates for 1881-82, as originally adopted, erroneously included a sum of Rs. 8,000 on account of percentage levied from estates in Manbhoom on account of treasury establishments. The rate on the Narail Estate has also been reduced. The estimate under this head will therefore be reduced from Rs. 62,000 to Rs. 50,000, and the gross receipts from provincial rates will stand at Rs. 35,50,000.
- 10. Customs.—The regular estimate exceeds the original by Rs. 6,000. The increase is chiefly under demurrage fees.

11. Salt.—The demand for warehouse accommodation has continued to

increase, and the estimate has been raised to Rs. 1,60,000.

Stamps.—The original estimate of this Government under the head of Stamps was its. 1,20,00,000. This was reduced by the Government of India to Rs. 1,16,00,000, but, having regard to the indications of the early months of the year, the Lieutenant-Governor considered it safe to estimate that the receipt

would not be less than Rs. 1,18,00,000. The increase has been steadily maintained and there is reason to believe that the gross revenue fron this source has amounted to Rs. 1,20,00,000. This sum will accordingly be entered.

13. Registration.—The estimate accepted in the Resolution of the 24th June for 1881-82, including revenue record-room receipts and land registration fees, was Rs. 10,50,000. There has been a great falling off in the number of registrations in consequence of the abundance of the harvest. The estimate has been reduced to Rs. 10,00.000.

14. Minor Departments.—The estimate of receipts under this head has been raised from Rs. 1,65,000 to Rs. 1,91,000. The increase is mainly under sale proceeds of ciuchona febrifuge, the demand for which is rapidly

increasing.

15. Law and Justice. - The regular estimate of receipts under this head amounts to Rs. 17,10,000 against Rs. 18,20,000, the original estimate for 1881-82. The difference between the two estimates is as follows:

			Original estimate.	Regular estimate.
			Rs.	Rs.
Sale proceeds of unclaimed	and	escheated		
property		***	60,000	50,000
Court fees realized in cash		***	30,000	18,000
General fees, fines, and forfeit	ures	***	8,00,000	8,00,000
Jails		***	9,00,000	8,00,000
Pleadership examination fees			18,000	35,000
Miscellaneous			12,000	7,000
T	otal		18,20.000	17,10,000

It has been found that the estimate of receipts from Jail manufactures was too high, and that not more than Rs. 8,00,000 will be realized from this source.

Police.—The original estimate of police receipts for 1881-82 was Rs. 4,75,000. As the receipts from pounds situated within municipalities had in all instances been made over to the municipalities concerned, the estimate was subsequently reduced to Rs. 4,65,000. There has been a large increase in the receipts from "cattle trespass fines," and "fees for the examination of steamers." The regular estimate stands at Rs. 5,26,000.

17. Marino.—The estimate of marine receipts for 1881-82 has been

reduced from Rs. 12,00,000 to 11,00,000. The decrease is due to—

The transfer of the port dues with the port approaches to the Port Commissioners, Calcutta;

The reduction of 15 per cent. in the pilotage fees; and (2)

- The transfer to the Port Commissioners of certain miscellaneous receipts included under other heads.
- 18. Medical.—The falling off in the regular estimate is partly due to the reduction in the rate charged for sick seam n against the Hospital Port Dues Fund, and partly to the reduced sale-proceeds of lunatic asylum manufactures. College and school fees also show a decrease. The rate charged for the maintenance of sick seamen was reduced in order to save the Hospital Port Dues Fund from insolvency. The rate levied is now less than half the actual cost, and the charge thrown upon the public revenues is consequently more than Rs. 60,000 a year. The regular estimate stands at Rs. 1,38,000.
- 19. Stationery and Printing. The regular estimate provides for an increase of Rs. 17,000 over the first estimate. The increase is under miscellaneous press receipts.
- 20. Interest.—The Provincial receipts hitherto shown under this head chiefly represented the proceeds of the invested capital of the Education The increase of Rs. 5,000 in the regular estimate is due to the inclusion of the interest on arrears of Public Works Cess realized under the provisions of section 45 of Act IX (B.C.) of 1880.
- . 21. Railways.—The Government of India estimated the receipts under this head for 1881-82 at Rs. 31,10,000. Looking to the steady increase in the traffic on the three principal lines, the Lieutenant-Governor, in the Resolution of the 24th June, raised the estimate to Rs. 32,10,000. It is probable that even this sum will be exceeded. The regular estimate stands at Rs. 82,12,000.

- 22. Irrigation and Navigation—The regular estimate under this head, compared with the first estimate, shows a decrease of Rs. 1,11,000. There is a falling off amounting to Rs. 1,14,000 under Orissa Canals, and to to Rs. 28,000 under Midnapore Canals. Against these decreases there is an estimated increase of Rs. 16,000 from Calcutta and Eastern Canals, and of Rs. 15,000 from Sone Canals.
- 23. Other Public Works.—The greater part of the increase of Rs. 18,000 in the regular estimate is expected from "ferries."
- fixed allotment for 1881-82 was Imperial Allotment .- The Rs. 36,25,000. In the estimate for the last year credit was taken for Rs. 2,00,000 on account of duty on Shahjehanpore rum collected in the North-Western Provinces for the five years 1877-82. A sum of Rs. 10,000 was also estimated on account of jail and printing charges against other Governments. On the other hand a provision of Rs. 25,000 was made for payment to the Assam Administration on account of duty on Shahjehanpore rum consumed in that province. total alletment was thus estimated at Rs. 38,10,000. It has since been arranged with the Government of the North-Western Provinces that a credit of Rs. 55,000 only should be afforded to Bengal on account of the duty on Shahjehanpore rum imported to Bengal in 1881-82. Under the new contract all receipts from this source will be credited to excise under this Government. The inter-provincial adjustments with other Governments may bring in Rs. 10,000. The assignment for the charges on account of Government estates has been increased to Rs. 1,90,000, with effect from 1878-79. A credit of Rs. 80,000 will accordingly be taken in the accounts of 1881-82, viz. Rs. 10,000 each for that year and its two predecessors, and Rs. 50,000 for 1878-79. The Imperial contribution of Rs. 2,000 towards the cost of the registration of frontier traffic, and the sale-proceeds of the cinchona bark in London amounting to Rs. \$8,000 should also be credited in the Provincial accounts through this head. A grant of Rs. 28,000 has been sanctioned by the Government of India on account of the payments made by this Government in 1579-80 and 1880-81 from provincial funds for the purchase of Port Canning debentures from private holders. The contribution of Rs. 20,00,000 made to the Imperial Government in the years 1879-80 and 1880-81 has been restored to this Government. A sum of Rs. 93,700 has been added by the Government of India on account of loss by exchange on stationery stores to be The total allotments thus amount to borne by Provincial funds. Rs. 59,81,700. From this amount a deduction of Rs. 4,21,000 should be made in consequence of the reduction in the rate of interest on capital expenditure from 41 to 4 per cent. A further sum of Rs. 27,000 should also be deducted on account of the re-adjustment of the marine grant. The net allotment therefore stands at Rs. 55,33,700. Under the new financial settlement therefore stands at Rs. 55,33,700. Under the new financial settlement the Provincial Government will have to surrender to the Imperial Government a sum of Rs. 30,00,000 a year. In order, however, that the Previncial Government may not be suddenly embarrassed in consequence of the operation of this settlement, the Government of India have granted a sum of Rs. 28,50,000 to be credited to Bengal in the account of the year 1881-82. This amount should also be included in the Imperial allotment. The total allotment will then be Rs. 83,83,700.

EXPENDITURE.

- 25. Interest.—The regular estimate of interest charges for 1881-82 given by the Accountant-General, Public Works Department, was Rs. 37,90,000. This has been reduced to Rs. 33,71,000 in consequence of the decrease in the rate of interest from 4½ per cent. to 4 per cent.
- 26. Refunds.—The original estimate was Rs. 6,46,000. As large refunds of the license-tax and other revenues realized in 1880-81 had to be made in 1881-82, the expenditure will exceed this limit. The regular estimate is raised to Rs. 7,50,000.
- 27. Under the head of Customs the original estimate has been reduced by Rs. 5,000.
- 28. Registration.—As the estimate of receipts has been reduced there has been a proportionate reduction in the estimated charges for commission. The

regular estimate amounts to Rs. 6,09,000 against the original estimate of Rs. 6,32,000.

29. Administration.—The regular estimate shows an increase of Rs. 8,000 on the original estimate. There have been increases in the Civil Secretariat and in Commissioners' offices, against savings under "Staff and Household of the Lieutenant-Governor."

30. Minor Departments.—The expenditure on account of the Calcutta Industrial Arts Exhibition, for which no provision was made in the first estimate, accounts for the increase in the regular estimate. There were also extra grants under "Botanical Gardens," and "Donations to Scientific Societies,"

against savings under "Cinchona Plantations."

31. Law and Justice.—The regular e-timate under Law and Justice stands at Rs. 84,28,000, showing a decrease chiefly under Jails, of Rs. 6,93,000 compared with the original estimate. The amount of the original estimate under Jails was Rs 22,52,000. This included a provision of Rs. 11,26,000 for jail manufactures, but from the information now available it does not appear that the actual expenditure has exceeded Rs. 7,00,000. There have also been considerable savings under Central Jails, District Jails, and Lock-ups.

32. Polic.—The regular estimate shows an increase of Rs. 32,000 on the original estimate. Some increase is expected under village police, and

some under superintendence.

33 Marine.—The original estimate for 1881-82 provides for an expenditure of Rs. 12,17,000. There have been savings in consequence of the transfer of the Calcutta Port Approaches to the Port Commissioners. The regular estimate amounts to Rs. 10,97,000.

34. The regular estimate, compared with the original, shows a decrease of Rs. 13,000 under *Education*, and of Rs. 1,000 under *Ecclesiastical*. The decrease of Rs. 32,000 under *Medical* is owing to anticipated savings in the cost of hospitals and dispensaries, Medical Schools and Colleges, and Lunatio Asylums, and in the grants for medical purposes.

35. Stationery and Princing—An increase of Rs. 73,000 is provided in the regular estimate. The grant under "Government Presses" was found to be insufficient, owing to the press of work in connection with the Census opera-

tion, and to the necessity of purchasing new machines.

There was also some increase in the disbursements for printing at private presses by the Opium Department in the Benares Agency. The attention of the Board of Revenue has been drawn to this.

- 36. Superannuation.—The increase under this head is due to the payment of a moiety of the pension of the late Director of the Wards' Institution, Calcutta, and to the payment of the pension of the late Collector of Tolls, Burdwan Division.
- 37. Miscellaneous.—The gross charge under this head is liable to considerable variation. The regular estimate provides for an increase of Rs. 13,000. The increase is mainly under "Miscellaneous and unforeseen charges."
- 38. The grant fixed by this Government for expenditure on Public Works of all kinds during 1881-82 was Rs. 1,34,33,000. Looking to the unanticipated increase of revenue under Excise and decrease of expenditure under Law and Justice, the Lieutenant-Governor, in the course of the year, sanctioned additional grants amounting to over Rs. 7,32,000. It has been ascertained that the whole of this amount could not be appropriated during the year, and that the total expenditure has not exceeded Rs. 1,36,69,000. The extra grants were divided thus:—Railways (Surveys Rs. 2,52,000, and Dinagepore-Parbutipore line Rs. 1,33,000), Rs. 3,85,000; Irrigation (maintenance of tuccavi embankments, Rs. 50,000; Other Public Works (acquiring land near Medical College Rs. 1.59,000, road from Sevoke to the Teesta river Rs. 1,00,000, etc.), Rs 2,97,000.
- 89. Contributions.—Under this head come the payments for work done by the District Road Establishments in collecting the Provincial Public Works Cess, as well as grants to the three districts—Southal Pergunnahs, Singbhoom and Chittagong Hill Tracts—in which the Road Cess Act is not in force. The Lieutenant-Gevernor also found himself in a position to make special grants for road construction and other improvements in several districts.

These grants will be further referred to in another place. The total grants during 1881-82 amounted to Rs. 3,33,000.

40. Closing balance.—As stated above, the year 1881-82 is expected to close with a credit balance of Rs. 72,49,000. The Government of India estimate that the balance may not exceed Rs. 70,88,000. The difference between the two estimates is made up thus:-

				Regular est	imate, 1991-93.
		70 '		Local Government.	Government of India.
		Recei	0/8.	**	
				Rs.	Rs.
Excise		b 4 #		95,00,000	98,00,000
Provincial rates				35,50,000	35,40,000
Stamps				1,20,00,000	1,18,00,000
Registration			+ + 1	10,00,000	9,92,000
Minor Departmen	nts	4 * 4		1,91,000	1,80,000
Law and Justice				17,10,000	16,00,000
Marine				11,00,000	10,44,000
Fiducation				5,30,000	5,28,000
Stationery and P	rinting			1,22.000	1,34,000
Miscellaneous				6,55 000	6,89,000
Allotment for los	ss by exch	ange in sta	tionery		
stores			104	94,000	
Grants for payn			ovincial		
Funds for the	purchase	of Port C	anning		
debentures	•••		***	28,000	40000
				3,04,80,000	3,03,07,000
Difference				1 7	8,000
Dinaction	* * *	***	***	2,11	<b>5</b> ,000
		Expendi	ure.		
Land Revenue				27,00,000	26,93,000
Excise		a # +		2,70,000	2,65,000
Salt				22,000	17,000
Minor Departmen	nt			3,00,000	4,25,000
Law and Justice		***		84,28,000	84,23,000
Stationery and Pr	rinting			9,37,000	8,22,000
				1,26,57,000	1,26,45,000
D:#					2000
Difference	0 0 0	000	• • •		2,000
Net difference	9 0 0			1,6	1,000

The difference of Rs. 1,25,000 in expenditure under the head of Minor Departments is due to a part of the cost of Census operations being debited to Provincial Funds. The Lieutenant-Governor trusts, however, that the original proposal, that the entire expenditure on this account would be borne by the Imperial Revenues, will be adhered to. The percentage of Land Revenue made over to this Government ir the new financial settlement has also, as will be shown below, been calculated on the regular estimate of the local Government, which was prepared on the latest information available. The estimated closing balance for the year 1881-82, or the opening balance for 1882-83, will therefore be taken at Rs. 72,49,000.

# RESULTS OF THE FINANCIAL ADMINISTRATION OF THE FIVE YEARS.

Quin. + 7

41. In the resolution of 24th June 1881 Sir Ashlev Eden instituted a comparison between the revenue and expenditure of the five years 1877—82. These five years cover the period affected by the contract under which the first great advance in the policy of decentralization was made. They also coincide with the term of Sir Ashley Eden's administration. His Government would therefore have been responsible for any failure that might have resulted apart from calamities of season or other abnormal causes. On the other hand the local Government may fairly claim some share in any advantage which the province may during this five years' term have derived from careful administration and judicious expenditure. In the resolution of June the Lieutenant-Governor was able only to take the budget estimates for 1881-82. He is now able to substitute the figures of the regular estimate, which may be taken to be approximately correct. The following statement shows the revenue and expenditure of each of the five years:—

Revenue.

				1877-78.	1878-79.	1879-80.	1880-81.	Regular, estimate, 1881-82.
				Re.	Rs.	Re.	Rs.	Re.
Opening balance	* * *	***	4 0 0	2,88,000	*26,90,000	42,79,000	81,04,000	49,91,000
and Revenne	4.00			1,07,000			*****	******
CECIBO	***	411 124		69,68,000	70,28,000	72,07,000	85,53,000	96,00,000
Assessed Taxes	4	111 111		411	2,98,000	4,74,000	3,50,000	3,50,000
rovincial Rates				21,05,000	36,40,000	36,14,000	35,15,000	85,50,00
Customs			434	75,000	99,000	99,000	1,30,000	80,00
alt		111		2,72,000	1,24,000	1,03,000	1,35,000	1,60,00
tamps	***		***	1,08,15,000	1,07,85,000	1.14.99,000	1,13,92,000	1,20,00,00
egistration	101	***	411	6.61,000	9,89 600	10,29,000	10.30.000	10,00,00
Linor Departments	***		1	0,02,000	4.25.000	1,51,000	1,65,000	1,91,00
aw and Justice-	***	***	***	******	-,,	2,0-1,1-1	.,	5,00,00
Law and Justice Proper	111			8,05,000	10.52.000	10,80,000 >		
Jails	111		271	6,89,000	5,94,000	6,96,000	17,5R,000	17,10,00
0-1/				92.000	4, 2,000	6,76,000	4,98,000	5.26.00
Nomine.	***	111	911	14,57,000	11.76,000	11,23,000	12,76,000	11,00,00
3-2	147			6,20,000	4.80,000	4,52,000	4.95.000	5,30,00
d - dline l	***	***	***	1,59,000	1,96,040	2,66,000	1,58,000	1,38,00
the tion own and Dainting	***	***	*** }	78,000	1,10,000	98.000	1,22,000	1,22,00
and a second	141	***	*81		45.400	12.000	13,000	20.00
diamellamanna.	***	111 111	4.0.1	B.83,000	7.96.000	8.48.000	7.53.000	6,55,00
1		***	***					
Railways	4 4 4	244	***	7,32,000	17,58,000	25,14,000	29,59,000	82,19,00
rrigation and Navigation	061	*** ***	9.01	4,95,000	15,27,000	16,69,000	16,71,000	17,63,00
ther public works	***	***	2.01	98,000	8,38,600	7,56,000	6,86,000	6,90,00
Contributions	***	811 141	****	*****	******	6,000		2,00
	Total	Revenue	4++	2,69,11,000	3.20,78,000	3,41,78,000	3,56,40,0 J	3,73,05,00
imperial allotment		*** ***	441	48,55,000	47,57,000	46,66,000	60,39,000	83,84,00
	GRAN	D TOTAL		3,20,54,800	8,95,25,000	4,31,17,000	4,47,85,000	5,06,80,00

<sup>•</sup> Includes; Rs. 14,52,000 transferred from "Provincial Reserves" and Rs. 44,000 transferred from the old "Wards' Paud."

#### Expenditure.

					1877-78.	1878-79.	1879-80.	1880-81.	Regular estimate, 1881-82.
				1	Ra.	Re.	Ra.	Ra.	Be.
Interest		101	121		20,00,000	32.14.000	84,92,000	86,32,000	33,71,000
Refunds			***		6.32.000	6,51,000	9,3 ,000	7,30,000	7,50,900
Land Revenue		***	100	100 [	24,37,000	25,43,000	25,09,000		
Porest					1.000			27,30,900	27,00,000
Excise		***			3.06.000	2,83,000	8.61.000	8 40 000	0.80.600
Annanad Manaa			0.010		.,,	2,79,000	2,61,000	2,62,000	9.70,000
Description of Protect				***	10,000		1,95,000	1,68,000	1,00,000
Toward come or			0.04	***	7,16,000	13,000	6 DF 660		*****
B-14		0 + 1	214	***	40,000	6,99,000	6,95,000	6,99,000	6,95,000
Ar		4 9 6	2.44	414		48,000	33,000	15,000	22,000
34		***	+ 0.0	+4+	2.49.000		*****	1,000	414114
D. um-ut-mation		9.01	194	***		2,51,000	3.81,000	8,89,000	4,34,000
A dayies intom to lose		* * *	5.8.8	***	4,56,400	0.00,500	6,04,000	6,38,000	6,09,000
Minor Departments	9 9 9 9	4 6	v 4 8	***	13.22,000	14,77,600	14,57,000	14,70,000	14,86,000
Law and Justico-	4 + 4				9,63,000	2,45,000	2,80,000	2,75,000	3,00,000
				1	40				3 0
Law and Justice Proper	111	* * *		***	63,77,000	64,63,000	65,87,000 }	83,76,000	84,28,000
le ff		0.01	111	***	16,51,000	18,56,000	18,41,000 }	63,70,000	34,28,000
Police			9.64	404	41,87,000	40,24,000	40,12,000	40.18.000	41.32.000
Marine	4 449			499	12,72,000	12,37,640	10,68,000	10.86,000	10.97,000
Education		***	711	2-4	25,24,000	34,88,000	24,75,000	25,56,000	26,77,000
Raclesiastical	10 101	116	140	444	8,000	8,000	9.000	8,000	8,000
Medical	4.00	0 = 0	***	100	13,45,000	12,31,000	11,70,000	11,10,000	10.93.900
Stationery and Printing			***	414	8,61,000	9,52,000	8,73,000	9,46,000	9,37,000
Aunerannuations		***	***			******	1,000	2,000	S, UHIC
Miscellatioous	444				8.21.000	2.82.000	4.32,000	8.72.000	8.15.000
Railways					6,28,000	13,47,000	20,05,000	18,98,000	82,16,006
Irrigation and Navigation .	0 05+			***	7.03.000	15,20,000	18.61.000	24,34,000	37,61,000
Other public works ,	1 401	***	194	***	25,12,000	33,45,000	83,72,000	47,60,000	60,92,000
						00,00,000	00,12,1100	41,00,000	00,00,000
		To	otal		8.08.60.000	8,50,52,000	8.65,17,000	8,85,96,900	4,80,98,000
Contributions to Local .	0 484		***			1,94,000	1.81.000	1,98,600	3,33,000
Ditto to Imperial .	20 000	444	***		*****		13,15,000	10,00,000	
				4		441489	10,10,000	10,00,000	*****
					3,08,00,000	8,62,48,900	8,80,13,000	8,97,92,000	4,84,31,000
	Closing	Bala	1100		11,94,000	42.70,000	61,04,000	49.91.000	72,49,000
						22/10/000	01,00,000	40,01,000	12,50,100
	GRAND	Tor	AE.		8,20,84,000	8,96,25,000	4,31,17,000	4,47,83,000	5,00,80,000

<sup>42.</sup> It was explained in the last review that the year 1877-78 cannot properly be compared as a whole with the succeeding years, and that it would be misleading to say without qualification that the revenue has increased from Rs. 2,69,11,000 in 1877-78, to Rs. 3,73,05,000 in 1881-82. The whole amount of

the public works cess could not be levied during the first year, and revenue subsequently shown in the general accounts of the provincial services then found place under the separate head of "Provincial Reserve." Moreover, the Licensetax had not then been introduced, and the grant since made from the Imperial Revenues for the administration of the tax has no corresponding entry in the accounts of 1877-78. It will be possible to compare individual heads of revenue and expenditure, but the general results can only be compared between 1878-79 and 1881-82. It appears, then, that the revenues have increased during these four years from Rs. 3,20,78,000 to Rs. 3,73,05,000, while the expenditure has increased from Rs. 3,52,46,000 to Rs. 4,31,31,000. The period opened with a credit balance of Rs. 26,90,000. It closes with a credit balance, exclusive of the 28½ lakhs of special contribution from the Government of India in connection with the new contract, of Rs. 43,99,000. The revenue has increased at the rate of no less than 17½ lakhs a year, though there has been no taxation during the interval.

43. The following items are instructive as showing the advance made by

the Province between 1877 and 1882 :-

#### Revenue.

		1877.78.	1841-82.	Increase,
		Rs.	Rs.	Rs.
Excise		68,68,000	95,00,000	26,32,000
Stamps		1,08,15,000	1,20,00,000	11,85,000
Lasy and Justice		8,05,000	9,10,000	1,05,000
Jails		6,89,000	8,00.000	1,11,000
Railways		7,32,000	32,19,000	24.87.000
Irrigation and Navigation		12,61,000	17,62,000	5,01,000
		Exp	penditure.	
Land Revenue		24,37,000	27,00,000	2.63,000
Administration		13,22,000	14,86,000	1.64,000
Law and Justice		63,77,000	68,38,000	4,61,000
Education	111	25,24,000	26,77,000	1,53,000
Railways	0 = 4	6,26,000	32,16,000	25,90,000
Irrigation and Navigation		*15,20,000	37,61,000	22,41,000
Other Public Works		25,39,000	66,92,000	41,53,000
Contribution to local object	ts		3,33,000	3,33,000
				Decrease.
Jails		16,51,000	15,90,000	61,000
Medical		13,85,000	10,93,000	2,92,000

• 1878-79.

The three items of revenue which show the largest increase are Excise (26½ lakhs), Railways (25 lakhs), Stamps (12 lakhs), and Irrigation and Navigation (5 lakhs). The items of expenditure which show the largest increase are Other Public Works (41½ lakhs), Railways (26 lakhs), Irrigation and Navigation (22½ lakhs), Law and Justice (4½ lakhs), Land Revenue (2½ lakhs),

Administration (13 lakhs), and Education (11 lakhs).

44. Under EXCISE the increase has been exceptionally rapid during the past two years in consequence of the abundance of the harvests, the cheapness of food, and the general increase in the prosperity and comfort of the people. These two years have also seen the outstill system for the manufacture and sale of country spirits in force throughout the greater part of the interior of the province. Sir Ashley Eden has on many occasions expressed his conviction that this is the only sound system for the administration of an excise on spirits in rural tracts in Bengal, and it is not necessary to repeat here the arguments on which that conviction is founded. It is not possible, however, to credit the outstill system with more than a subordinate share in the increase of revenue. The outstill system was largely in force in 1877-78 and 1878-79, as well as in the later years. In the first years, however, owing to the demand for food elsewhere, the cost of grain was exceptionally high, and the increase in the excise rewenue was trifling. In 1880-81 and 1881-82 the prices of food have been unprecedentedly low, while the harvests have been abundant. It has been stated in some

quarters that the increase of revenue has resulted from the excessive number of stills licensed, and the undue facilities afforded for procuring Sir Ashley Eden, while issuing the strictest orders against the unduc multiplication of shops, has more than once urged upon his officers that the tendency of such a policy must be adverse to the interests of the revenue as well as to the well-being of the people. He has pointed out that if shops are too numerous competition among bidders for licenses will be diminished, low fees will be paid to Government, and consequently low prices will be charged for liquor to the consumer. If, on the other hand, only so many stills are licensed as will meet the requirements of the people and prevent illicit manufacture, candidates for licenses will compete and pay such fees for the licenses as will leave them only a fair margin of profit. The interests of the revenue will be protected, while the cost of liquor to the consumer will be raised to such a price as he will be willing to pay rather than take the risks of smuggling. The results of the settlements for 1882-83 entirely confirm these views. The number of outstills has been reduced from 5,386 to 4,216, while the collections for March, which include heavy advance payments on account of new licenses, have reached the highest figure yet attained.

Apart from this, however, two unerring tests can be appealed to: - 1) the consumption of exciseable articles other than country spirits; (2) the consumption of exciscable articles, including country spirits, in places where the outstill system is not in force. The fees for licenses to sell imported liquors, the customs duty on imported liquors passing into consumption, the receipts from fermented liquors such as pachwai and tari, and the receipts from opium, ganja, and other drugs, all showed a large increase in 1880-81 over 1879-80. The increase from ganja was Rs. 1,64,516, and, notwithstanding that Government raised the selling price of excise opium during the year, the revenue from this source rose from Rs. 15,54,000 to Rs. 16,44,000. Detailed statistics are not yet available for 1×81-82, but it has been ascertained that the receipts from the sale alone of excise opium, apart from the license fees, have increased from 132 lakhs to 143 lakhs, or by more than 7 per cent. in this one year. The second test is even more convincing. Of the gross increase of 91 lakhs in the revenue in 1881-82 over 1880-81, Calcutta, where the outstill system is not in force, contributed more than 21 lakks, the revenue having risen from 142 lakhs to more than 17 lakhs. In other words the increase of revenue in Calcutta-a sudder distillery area-was 18 per cent. In the interior, including some tracts still under the sudder distillery system, the increase was only 9.8, or something more than half the rate of increase obtained in Calcutta. For the consumption of spirits in 1881-82 in the sudder distillery areas outside Calcutta no stati-ties are yet available, but it is instructive to remark that in Hazaribagh, while the number of shops was constant, it rose from 34,871 gallons in 1879-80 to 43,750 gallons in 1880-81, and that in Lohardugga, with a decrease of one shop, it rose from 17,619 to 20,149. Sir Ashley Eden has no doubt that the large increase in the excise revenue is a matter for congratulation, and that it bears testimon; to the increased prosperity of the people, as well as to increased efficiency in the administration. The increase in revenue, however, is not necessarily the measure of increased consumption, for a greater quantity of the spirits consumed has paid duty than could have been the case under the old system. It is not probable that the revenue from this source will continue to show the same rate of progress as the past two years have seen, but it is expected that the receipts in the current year will amount to Rs. 1,00,00,000.

- 45. The revenue from STAMPS has increased less markedly but more steadily than the revenue from excise. The increase of about 12 lakhs is made up of an increase of 7 lakhs between 1878 and 1880 and an increase of 5 lakhs between 1880 and 1852. It is reasonable to attribute these results, partly to the increased circulation of wealth in the country and the increased facilities for obtaining justice, and partly to improved administration and special vigilance in the prevention and detection of fraud.
- 46. Under LAW and JUSTICE, LAND REVENUE, and ADMINISTRATION there has been an increase in expenditure of 4½, 2½, and 1½ lakhs

respectively. This represents large improvements in the machinery of the administration. Establishments have been strengthened and the salaries of some underpaid classes of ministerial officers have been revised, additions have been made to the staff of the Subordinate Executive Service, and the number of Judicial Officers has been increased to provide for the speedy and efficient administration of civil justice. It will be seen further on that the estimates of the current year include a provision for a general improvement of the salaries of both the Subordinate Executive and the Subordinate Judicial Service.

- 47. Under JAILS there has been an increase of Rs. 1,11,000 in the receipts and a decrease of Rs. 61,000 in the expenditure. The Jail Department now earns in each through its manufactures more than half the cost of maintaining the department. This does not include printing, and the supply of clothing, oil and other articles to the different departments of Government, which are only acknowledged by book-credits.
- 48. The expenditure on EDUCATION has increased by more than a lakh and a half. One lakh of this represents an addition to the grant of primary education which was reduced under financial pressure in 1876-77. The estimates for the current year provide for a further increase of nearly three lakhs on education, including a further addition of one lakh to the primary grant.
  - 49. The decrease of nearly three lakhs under MEDICAL represents savings effected in the management of Metropolitan Hospitals, the revision of grants to dispensaries in the interior, and the substitution of fixed allowances for the previous system of giving free supplies of expensive instruments and drugs. As was stated in the last review, this reduction in cost has been accompanied by an increase in the number of persons actually receiving medical aid.
  - 50. The gross revenue from RAILWAYS has increased from Rs. 7,32,000 in 1877-78 to Rs. 32,19,000 in 1881-82, or at the rate of about  $6\frac{1}{4}$  lakks a year. The expenditure has at the same time increased from Rs. 6,26,000 to Rs. 32,16,000. In order to obtain a correct view of the condition of this branch of the revenue, it is necessary to eliminate the expenditure on working expenses, and to show, on the one hand, what net revenue has been obtained, and, on the other, what money has been expended on permanent works. The following statement shows the gross receipts and working expenses in each year with the budget estimate for the current year:—

	1877-78.	1878-79.	1879-80.	1880-81.	Regular, 1881-3.,	Budget, 1882-83.	
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
Gross receipts Working expenses	7,32,000 6,69,000	17,53,000 12,53,000	25,14,000 19,23,000	29,58,000 16,76,000	32,19,000 19,08,000	38,20,000 10,52,000	• Includes cost of four new locomotive for Calcutts are
	1,63,000	5,00,000	5,91,000	12,82,000	18,11,000	16,68,000	South-Eastern line.

The estimate of 1881-82 is disturbed by the inclusion of a sum of Rs. 1,00,000 on account of new clocomotives for the Calcutta and South-Eastern line. If this were climinated, the net profits of the year would have amounted to Rs. 14,11,000, or more than 8½ times the profit made four years before, when railways were first made over to Provincial management. The progress of the charges for interest was fully examined in the last review. As a rule, these charges cannot be conveniently compared with the receipts of any one year, as heavy charges are necessarily incurred on account of large works before they can be opened. Thus the charges for 1881-82 include interest at half rates on more than 29 lakhs of capital expended on the extensions of the Tirhoot system, which cannot be opened till late in the current year. Nevertheless it is interesting to note that the true net receipts, after excluding the accounts of the Calcutta and South-Eastern line, on the capital of which no interest is payable by the local Government, were Rs. 13,41,000, while the interest on the capital expended was only Rs. 12,89,000. In other words the other railways brought in a direct profit to Government after payment of all expenses, while the province enjoyed the enormous indirect advantages derived from them, without any cost.

The percentage of profit earned in 1881-82, and expected in 1882-83, on each of the three great lines under this Government is:

			1881-82.	1882-83.
Northern Bengal	 		4.4	5.
Patna and Gya	 		4.5	5· <b>2</b>
Tirhoot	 	9 0 1	41 "	5.3.

The rate of interest payable on the capital employed in the construction of

these lines is now only 4 per cent.

51. It has been a matter of great regret to Sir Ashley Eden that, while the limitation placed upon the expenditure of funds on Productive Public Works by the Government of India seriously restricted the amount of capital assigned to Bengal for the construction of new lines, he was also for a long time fettered by special rules in the allotment of Provincial funds for these all-important works. Of late, however, a more liberal policy has been pursued, and he has been enabled to apply a part of the surplus revenues of the province to the construction of two lines, one from Sonapore on the South-Eastern Railway to Diamond Harbour, and the other from Parbutipore on the Northern Bengal Railway to the head-quarters station of the district of Dinagepore. It is much to be regretted that the Provincial revenues could not be sooner utilized in developing its resources. A considerable provision has, however, been made for expenditure on Provincial Railways in 1882-83. The expenditure on railways from all sources, borrowed capital and Provincial funds, will, in the current year, amount to Rs. 45,49,000.

52. The amounts expended on Provincial funds, on surveys and construc-

52. The amounts expended on Provincial funds, on surveys and construction in each year, and estimated for expenditure during the current year, are

given below:-

					$R_{s_n}$
1877-78				4 8 6	57,000
1878-79					94,000
1879-80	0 0 0	***			3,97,000
1880-81					2,22,000
1881-82	* 9 0				13 08,000
1882-83		***	* * *	0 0 4	20,78,000 18,18,000
					36,96,000

The sum of Rs. 20,78,000 includes Rs. 11,22,000 spent on the Diamond Harbour line, Rs. 3,15,000 spent on the Patna-Gya line but shown as a contribution to Imperial funds which advanced the remainder of the capital, and Rs. 2,50,000 spent on the Parbatipore and Dinagepore line. The remainder represents expenditure on surveys for new lines, on improvements on the Calcutta and South-Eastern line, and on the Deoghur Tramway.

The estimate for 1882-83 provides for the expenditure of Rs. 8,88,000 on the Diamond Harbour line, six lakes on the Diagepore line, and

Rs. 1,30,000 on surveys.

from Rs. 12,61,000 in 1877-78 to Rs. 17,62,000 in 1881-82. The last review gave details of the financial history of each of the Irrigation schemes under this Government during the five years since 1877, and it is unnecessary to repeat them here. It is sufficient to say that Sir Ashley Eden is convinced that the Sone system will ultimately prove both economically and financially successful, and that, where a complete system of distributaries for the Orissa Canals permits of the full utilization of the expensive head works, these canals will also afford a satisfactory return on the capital invested.

The amount expended from Provincial Funds under this branch, over and

above working expenses, in each of the past four years, has been-

	1678-79.	1879.80.	1880-81.	1881-82.	Total.
	Rs.	Rs.	Rs.	Rs.	Rs.
9	3,49,000	5,52,000	10,60,000	19,29,000	38,90,000

This includes the expenditure of Rs. 8,84,000 on the Orissa Coast Canal, Rs. 6,34,000 on the Sarun Canal, Rs. 5,73,000 on the Joojooty Project for the improvement of the water-supply of the Burdwan and Hooghly districts,

Rs. 16,21,000 on the improvement of the Calcutta Canals, and Rs. 7,52,000 on the improvement of the Orissa tidal creeks.

B4. Under OTHER PUBLIC WORKS the expenditure has increased from Rs. 25,89,000 to Rs. 66,92,000. Fortunately Sir Ashley Eden was not fettered by special rules in the expenditure of funds on these works. The rules permitted him to erect buildings without limit, though they did not permit him to construct railways. Even in this branch, however, the expenditure was for a time seriously restricted, owing to the financial difficulties which famine, war, and adverse exchange had brought on the Government of India. Nevertheless Sir Ashley Eden has found it possible to expend large sums on works without which the administration could not be efficiently conducted, and the construction of which had been postponed for many years for want of funds. Substantial court-houses, jails, and public offices have been supplied where they were urgently required, and no expenditure has been spared where it could be devoted to the improvement of communications. The gross expenditure during the five years has amounted to Rs. 1,33,20,000 on construction and Rs. 75,31,000 on repairs.

TRIBUTIONS in aid of projects undertaken by local bodies. During the year 1881-82, the grants thus made, including the general allotment of Rs. 46,800 for the collection of the Public Works Cess, amounted to Rs. 3,38,000. Grants of Rs. 65.883 were made to the Nuddea District Road Fund for the repair of a railway feeder road and the construction of bridges for the improvement of the drainage. The Sonthal Pergunnahs received Rs. 49,05%, Dinagepore Rs. 30,000, Balasore Rs. 25,000, and other districts and municipalities smaller sums for the construction or repair of roads, or for drainage and water-supply works. In the current year the large provision of Rs. 13,50,000 has been made for this purpose, and grants have already been made of Rs. 50,000 to the Suburban Municipality and Rs. 50,000 to the Burdwan Municipality, towards the cost of achemes for water-supply. From this source must also come special grants

for the furtherance of the important object of local self-government.

56. The results of the five years' financial administration may thus be summed up. The revenue has increased by 264 lakhs under Excise, 25 lakhs under Railways, 12 lakhs under Stamps, and 5 lakhs under Irrigation and Navigation. The general increase since 1878-79 has been at the rate of 171 akhs a year. Improvements have been made in the general administration, and the expenditure under the great heads of Land Revenue, Administration, and Law and Justice, has in consequence been increased by 8 lakhs of rupees a year between 1877 and 1882. The funds available for Education have been increased, while the charges of the two spending Departments of Jails and Medical have been reduced. Finally Sir Ashley Eden has spent during the five years from the surplus revenues of the province, Rs. 20,78,000 on Railway works, Rs. 39,00,000 on Irrigation and Navigation works, and Rs. 141,00,000 on the construction of Roads and Buildings, or in contributions to district works: in all Rs. 200,00,000 on original works of all kinds. This useful expenditure would have been even greater had not the Government of India exacted from the Provincial Revenues a special contribution of Rs. 20,00,000 for its own purposes. This contribution has now been generously returned, but it only goes to swell the closing balance at the credit of the Province. The five years' period opened with a credit balance of Rs. 2,88,000. It closes with a credit balance of Rs. 42,62,000, exclusive of the special grant which forms a part of the new contract.

#### THE NEW CONTRACT.

57. Such have been the results of the five years' contract of 1877. The new contract is roughly based on the regular estimates of the last year of the old one. The principle of this contract is that, instead of giving the local Government a fixed sum of money to make good any excess of provincialized expenditure over provincialized receipts, a certain proportion of the Imperial revenue will be devoted to this object. A few heads are reserved a

Imperial; others are divided in proportions, for the most part equal, between Imperial and Provincial; the rest are made Provincial. The balance of trans. fers, being against the local Government, is rectified by a fixed percentage on its Land Revenue otherwise reserved as Imperial. At the same time a distinct declaration has been made of the policy to be followed during the term of the contract. The Imperial Government will make no demand on the local Government except in the case of disaster so abnormal as to exhaust the Imperial reserves and resources, and to necessitate a suspension. of the entire machinery of public improvement throughout the empire. On the other hand the local Government must look for no special aid from the Imperial Government except in the case of severe famine, and then only within the following limits: - 1) current income must have been exhausted, every avoid. able expense in every department having been retrenched and the public works grants having been applied to famine work to the very utmost possible; (2) saving of past years in excess of the ordinary working balance must have been drawn up to two-thirds of their total amount; (3) the margin of Provincial surplus in normal years will be liable for the completion of works begun as relief works, and where there is no need of such, completion will be chargeable up to one fourth at most for payment of interest on any Imperial loans which may have been raised to meet the excess cost of the famine in

general.

58. The following are the principal additions made to the provincial receipts and charges under the new scheme. This Government will be admitted to a half share in the receipts from Forests and Assessed Taxes, and will take all the receipts under the heads of Superannuations, Miscellaneous, and Other Public Works, except contributions from the military and medical funds; gain by exchange on Imperial transactions; Premium on bills and unclaimed bills of exchange; receipts from military work; and any unspecified miscellaneous receipts exceeding Rs. 10,000. Under Forests and Assessed Taxes it will be liable for half the charges. The Imperial Government will now only retain under Land Revenue the same percentage on charges for collection and on the cost of surveys and settlements as was retained of land revenue. To the present provincial charges will be added under Law and Justice and Medical all that was reserved as Imperial; under Stationery and Printing all except the cost of stationery purchased from central stores; and under Other Public Works, the charges for Museums, Educational Buildings, and Lighthouses. On the other hand, one-half the net receipts from Excise, Stamps, and Registration, including record-room fees, will be surrendered to the Imperial Government. The percentage of Land Revenue has, however, only been calculated after allowing for the claim of the Government of India to share in the general improvement that has resulted to the Provincial revenues during the five years just expired. That share has been fixed at 80 lakbs a year. From this the Government of India have deducted 3 lakbs to be expended on the improvement of the Subordinate Executive and Judicial Services and the establishment of the new district of Khoolna. In order, too, that the local Government might not be embarrassed by a sudden reduction of 27 lakhs in its income, His Excellency the Governor-General in Council has added a sum of 281 lakhs to the credit balance of the Province for 1881-82.

59. The amount of percentage of Land Revenue which, under the new scheme, will be assigned to this Government, has been calculated, as was stated above, upon the basis of the regular estimate for the year 1881-82. It has been fixed at 32.2248. A sum of Rs. 30,00,000 has, on account of the annual contribution to the Government of India, been added to the Provincial deficit, provision being at the same time made for an additional expenditure of three lakhs for the improvement of the subordinate Civil Service and for a new district of Khoolna; on the other hand the receipts from Excise have been increased by Rs. 55,000, being half the estimated duty on Shahjehanpore rum

for the current year.

### BUDGET ESTIMATES FOR 1882-83.

60. The Lieutenant-Governor has already in separate re olutions reviewed the estimates of receipts and expenditure for the current year. A brief summary only of the general character of these estimates need now be given.

#### RECEIPTS.

61. Land Revenue — The provincial share of land revenue is, as shown above, 32.2248 per cent. of the gross receipts. The total receipts are estimated at Rs. 3,78,49,000. The provincial share therefore amounts to Rs. 1,21,98,000. To this is added a sum of Rs. 3,00,000, being ten per cent. on the collections from Government estates, which, under the orders of the Government of India, is to be appropriated to the management and improvement of those estates. The Government of India estimate this percentage at Rs. 2,18,000. But as the collections from Government estates are estimated at Rs. 30,00,000, the local estimate of Rs. 3,00,000 on this account will be retained.

62. Forests.—This is an improving branch of revenue, the receipts having risen from Rs. 87,260 in 1871-72 to Rs. 4,32,368 in 1877-78, while it was estimated by this Government that they would amount to Rs. 7,10,000 in 1882-83. The Government of India have reduced the estimate to Rs. 7,00,000,

and one-half of this amount will be entered in the provincial estimate.

63. Excise.—The gross revenue from excise has been estimated at Rs. 1,00,00,000 for 1882-83. Fo this has been added the estimated income from duty on Shahjehanpore rum, amounting to Rs. 1,10,000. One-half of the

total receipts belongs to provincial.

64. Assessed Taxes.—The regular estimate of the gross revenue from license tax, including refunds, amounts to Rs. 16,50,000. The Board have been asked to impress upon Collectors the necessity of exercising prudence in requiring payments in cases in which there is probability of a claim to refund being established. The refunds of license tax for the current year have been estimated at Rs 30,000, against Rs. 80,000 for 1881-82. The estimate for the current year, amounting to Rs. 16,00,000, has been accepted by the Govern-

ment of India, and will stand.

65. Provincial Rates.—The Accountant-General estimated the receipts from Public Works Cess at Rs. 35,10,000. The estimate is based on the actual demand, no deduction being made for possible short collections, as the Board of Revenue expect that the total collections will be equal to the current demand. In view of the revaluations in progress, the Lieutenant-Governor has raised the estimate to Rs. 35,25,000. The estimate of the total receipts under Provincial rates, as originally passed by this Government, was Rs 35,76,000. But the Board of Revenue subsequently pointed out that their original estimate of Rs. 13,000 for the four-anna rate on Wards and Attached Estates for treasury establishments, which was reduced by Government to Rs. 10,100, was calculated on the total current demand of rent of all the estates amounting to Rs. 52,00,000. The estimate has accordingly been raised by Rs. 2,000. The total receipts therefore will stand at Rs. 35,78,000.

66. Customs.—The provincial receipts are derived from wharf rents, confiscations and penalties, and miscellaneous items. The estimate of the local Government, amounting to Rs. \$5,000, has been accepted by the Government of

India.

67. Salt.—The sources of the provincial income under this head are rents of wharf-houses, fines and forfeitures, and miscerlaneous. The receipts have been estimated at Rs. 1,39,000.

68. Stamps.—The Accountant-General estimates the total revenue from stamps at Rs. 1,15,00,000. It is expected that the receipts by the end of the year 1881-82 may have amounted to Rs. 1,20,00,000. The same amount has been entered for next year. The receipts are equally divided between the Imperial and Provincial Governments.

Rs. 10,00,000. A slight increase in the estimate for 1881-82 amounts to Rs. 10,00,000. A slight increase in the estimate for 1882-83 is expected from fees for searches under the High Court's order of August 1880, which requires every applicant for an order for sale for immoveable property, to file an affidavit that he has searched, or caused to be searched, the registers of registering officers to ascertain whether there are any encumbrances on the property to be put to sale. An increase is also expected under Revenue Record-room receipts. The total receipts are estimated at Rs. 10,11,000, a moiety of which is provincial.

70. Minor Departments.—The estimate for 1882-83 amounts to Rs. 1,91,500 against Rs. 1,91,000, the regular estimate for the year 1881-82.

71. Law and Justice. - The receipts from Law and Justice (proper) are estimated at Rs. 9,06,000. The jail proceeds were originally estimated by the Inspector-General at Rs. 13,12,670 against Rs. 9,00,000, the sanctioned estimate for 1881-82, but he subsequently reduced his estimate to Ks. 8,04,000. The total receipts have thus been put at Rs. 17,10,000. The estimate has been adopted by the Government of India.

Police.—Increased receipts are expected under the sub-head "Receipts on account of village police in Lohardugga" owing to the adoption of a new plan under which the salaries of the majority of the chowkidars and ghatwals will be realized under the coercive provisions of Act VIII (B.C.)

of 1878. The total receipts are estimated at Rs 5,46,000.

73. Marine.—The actual receipts in 1880-81 were Rs. 12,75,687, and the regular estimate for 1881-82 amounts to Rs. 11,00,000. The estimate, for 1882-83 is to Rs. 8.23,000. The decrease in the receipts for 1881-82 and 1882-83 is due, as has already been explained, to the transfer of the port dues with the port approaches to the Port Commissioners, and the reduction of 15 per cent. in the pilotage receipts.

Superannuation.—These receipts were Imperial, and have been made Provincial under the new contract. The receipts in 1880-81 were Rs. 68,652, and the regular estimate for 1851-82 amounts to Rs. 70,000. The estimate

for 1882-83 is Rs. 71,000.

75. Miscellaneous.—The receipts under this head aggregated Rs. 7,53,154 in 1880-81. Great strictness are now observed in the scrutiny of deposits. Items that were formerly entered as deposits and afterwards credited to Government as lapsed are now in many cases taken at once to service heads. The total receipts for 1882-83 were estimated at Rs. 6,33,000, and this estimate has been adopted by the Government of In tia, but to this should be added the sale proceeds of miscellaneous durbar presents, amounting to Rs. 10,000, which have now been made Provincial. The estimate therefore stands at Rs 6,43,000.

Railways.—The original estimate of this Government

Rs 36,20,000, viz.:-

					Rs.
Northern Bengal	State · Railwa	<b>₽</b> ▼	***		20 70,000
Tirhoot State Rai	lway	140		# 00 E	7,50,000
Patna and Gya		0.0.0		+ 9 9	5 33,500
Calcutta and Sout	th-Eastern		4 * *	+ 9 +	2,00,000
Nalhati		* ***	• • •		66,500
		Total			36,20,000

The Government of India consider the estimates under Northern Bengal and Patna and Gya Railways too sanguine, and have reduced the estimates to Rs 19,50,000 and Rs. 5,25,000 respectively. In view of the large receipts of the current year and of the stimulus that will probably be given to internal trade by the remission of the import duties and the reduction of the duty on salt, the Lieutenant-Governor prefers to adhere to the original estimate, Rs. 36,20,000.

Irrigation.—The receipts in 1880-81 and 1881-82 received a check 77. from the low prices of food-grains, which induced the people to hold up their

stocks. The receipts for 1882-83 are estimated at Rs 25,90,000.

78. Other Public Works.—The receipts from ferries and cemeteries are estimated at Rs. 5,17,000, and for other public works hitherto Provincial at Rs. 1,70,000. A sum of Rs. 15,000 on account of Imperial Public Works has been added. The total estimate thus stands at Rs. 7,02,000.

79. Balance of the Estates Improvement Fund .- As the Estates Improvement Fund has been abolished under the orders of the Government of India, the estimated balance of Rs. 1,60,000 on the 31st March 1882 will be credited

to Provincial.

#### EXPENDITURE.

80. Interest.—The original estimate of interest charges, as advised by the Accountant-General, Public Works Department, was Rs. 39,55,000. The reduction of the rate of interest from 42 per cent. to 4 per cent. reduced this estimate to Rs. 35,16,000, which was adopted by this Government.

Government of India have, on later information, increased these charges to Rs. 35,62,000. This estimate will accordingly be accepted.

Refunds -The original estimate of refunds of provincial revenues was Rs. 6,88,000. Under the new arrangement the refunds of receipts from Excise, Stamps, Assessed Taxes, and Registration, as well as Forests will be met in equal proportions by the Imperial and the Provincial Governments. The Provincial Government is also liable to pay for refunds of land revenue in the same proportion as it enjoys the receipts under this head. The estimate thus amounts to Rs. 6,20,000. The Government of India have added a sum of Rs. 2,000, which was omitted from the Accountant-General's first estimate submitted to this Government. The estimate of the Government of India will stand.

Land Revenue. - The original estimate of Land Revenue charges was 82 Rs. 26,85,000. A sum of Rs. 1,17,000 was added on account of the improvement charges of Government estates in consequence of the abolition of the Estates' Improvement Fund. It has been settled in consultation with the Board of Revenue that the charges on account of education in Government estates should be under the control of the Education Department, and that the contribution to road works should be made over to District Road Committees. A sum of Rs. 82,000 has accordingly been deducted from the total estimate, Rs 32,000 being added to "Education," and Rs. 50,000 to "Contribution to Local Funds." Under the new arrangement, the Provincial Government will have to bear the entire expenditure on account of malikana, which is estimated at Rs. 1,44,000 for 1882-83. The provincial share of the "settlement and survey" charges amounts to Rs. 90,000. A sum of Rs. 1,50,000, being half the grant for the improvement of the Subordinate Civil Service and the establishment of the Khoolna district, has also been added to the charges under Land Revenue. The total estimate as adopted by this Government, stands thus at Rs. 31,04,000. The Government of India have omitted from this head Rs. 3,000 on account of the medical charges of Government estates, Rs. 24,000 for charges on account of miscellaneous public improvements, and Rs. 8,000 provided for loss on cesses to be borne by Government on account of these estates. The Government of India have only entered Rs. 1,30,000 instead of Rs. 1,50,000 on account of the improvement of the Subordinate Executive Service, the balance being added under Law and Justice. The estimate of the Government of India is thus Rs. 30,49,000. But it has been decided that all charges on account of the Government estates, except the contribution to education and road works should be under the control of the Board of Revenue and shown as management charges of Government estates. The estimate under this head will be altered to Rs. 30,84,000.

Forests -The Government of India have reduced the estimate under this head from Rs. 4,45,000 to Rs. 4,40,000. The povincial share

amounts to Rs. 4,20,000.

84. The expenditure under the head of Excise and Assessed Taxes

is equally divided between the Imperial and Provincial Governments.

85. Customs. The original estimate of this Government was Rs. 7,05,000. The Government of India have reduced it to Rs. 5,69,000. The decrease in Customs charges is due to the proposed reduction in Customs establishment in consequence of the abolition of import duties. The exact amount of saving in the cost of these establishments has not yet been ascertained. The Government of India anticipate that the savings in 1882-83 may amount to Rs. 1,36,000, and ultimately to Rs. 2,64,000. As the Provincial percentage of Land Revenue has been calculated with reference to the full cost of establishment, the Government of India has taken credit for the anticipated savings in the form of a contribution from Provincial to Imperial. It is observed, however, that this gain will be considerably discounted in consequence of the gratuities and compensations to be immediately given, which under the new contract will be borne by this Government. A representation on this subject will be made to the Government of India.

86. Stamps.—The estimate amounts to Rs. 4,51,000 against Rs. 4,84,000, the regular estimate for the current year. The increase is under the head of Cost of Stamps supplied to Provincial Government. Half he expenditure

under Stamps will be borne by the Imperial Government.

87. Registration—The expenditure under this head amounted to Rs. 6,37,702 in 1880-81. For 1882-83 they are estimated at Rs. 6,33,000. This amount will be equally divided between the Imperial and Provincial Governments.

88. Administration.—The estimate for 1882-83 provides for an expenditure of Rs. 14,68,000 against Rs. 14,86,000, the regular estimate for the year 1881-82. The decrease is due to certain vacancies in the grades of assistants in the Bengal Secretariat being filled up by the appointment of officers on minimum pay, against a slight increase in consequence of the substitution of the appointment of Under-Secretary for that of Assistant Secretary.

89. Minor Departments.—The estimate under this head amounts to Rs. 3,06,000 against Rs. 3,00,000, the regular estimate for 1851-82. The in-

crease aspears under the head of "Cinchona plantation."

by the Local Government, was Rs. 89,24,000, viz., Rs. 69,33,000 for Law and Justice (proper), and Rs. 19,91,000 for Jails. Under the new financial arrangement the Local Government will have to bear the charges on account of law officers, for which a sum of Rs. 2,75,000 has been added to the estimate. A further sum of Rs. 1,50,000, being half the grant for the improvement of the Subordinate Civil Service and the establishment of the Khoolna district, has been included. The total estimate of the Local Government thus stands at Rs. 93,49,000. The Government of India have increased the grant under this head f r the improvement of the Subordinate Civil Service by Rs. 20,000, by a corresponding reduction in the grant under Land Revenue. The total grant thus amounts to Rs. 93,69,000.

91 The original estimate under Police was Rs. 41,31,000. A sum of Rs. 4,50,000 has been added, in accordance with the terms of the Resolution of the 28th February last, to provide for the police charges within municipal limits outside Calcutta, Howrah, and the Suburbs. All municipalities (except Calcutta, Howrah, and the Suburbs) have been relieved of these charges, the savings thus accruing to their income being devoted to the maintenance of dispensaries and to miscellaneous public improvements. The grant under Medical, which was originally entered at Rs. 15,26,000, including the provision of Rs 3,65,000 for Medical establishments has accordingly been reduced by one lakh of rupees. The estimate of the Government of India includes a provision of Rs. 3,000 for Medical charges in Government estates. As explained above, these charges will be shown under Land Revenue.

92. Marine.—The expenditure under this head amounted to Rs. 10,86,377 in 1850-81, and the regular estimate for 1881-82 amounts to Rs. 10,97,000 against the original estimate of Rs. 12,17,000. The estimate for 1882-83 is Rs 8,28,000. The decrease is due to the transfer of the port approaches to the Port Commissioners and the amalgamation of the offices of Port

Commissioner and the Snipping Master.

93. Education.—The actuals in 1880 81 were Rs. 25,55,778, and the grant for 1882-83 amounts to Rs. 29,60,000. A large provision has been made for Grants-in-aid and Assignments generally and under "Scholarships," and a sum of Rs 32,000 has been added for printary education in Government estates. The primary grant has been increased by I lakh of rupees.

94. Ecclesiastical.—The cemetery charges, which up to the present have been provincial, averaged about Rs. 8,500 a year. They have been made

Imperial under the new contract.

95. Stationery and Printing.—The Stationery Office, which has hitherto been an Imperial charge, has been made over to Provincial control. The estimate of Rs. 10,04,000 includes a provision of Rs. 93,000 on this account.

96. Superannuation.—In the new financial contract all pensions and gratuities (except pensions payable from the military and medical funds) brought to account in India, have been made Provincial, the local Government being responsible for the pensions and gratuities which it now pays, or hereafter grants or recommends, however earned and wherever paid. The estimate for 1882-83 amounts to Bs. 10,28,000. But this will be considerably increased by the gratuities and pensions to be immediately given in consequence of the reduction of custom establishments. The exact amounts of the increase is not yet known. The original estimate may, for the present, stand.

97. Miscellaneous.—Under this head the Government of India have retained as Imperial the charges on account of remittance of treasure; discount on supply bills; and extraordinary unclassified items exceeding Rs. 10,000. The expenditure in 1880-81 amounted to Rs. 3,72,007, and the estimate for 1882-83 is Rs. 2,92,000. In 1880-81 the miscellaneous and unforeseen charges aggregated Rs. 1,00,632. A sum of Rs. 23,000 only is estimated for the current year.

98. The grant made by this Government from Provincial funds for public works of all kinds was Rs. 1,27,48,000, and the amount was distributed as

follows:-

•					Rs.
Railways		4 + 4	***	***	35,70,000
Irrigation and Nav		0 0 0		* * *	36,72,000
Other works by Ci	vil Officers				48,000
Ditto by Pu	blic Works	Department	officers	* * 4	54,58,000
•			Total	1 4 1	1,27,48.000

A sum of Rs. 23.000 has been added on account of public works in Imperial Museums, Educational buildings, and Light-houses, and Rs. 24,000 for miscellaneous public improvements in Government estates. The Government of India have otherwise increased the grant by Rs. 2,67,000. The estimate of

the Government of India will stand.

99. Contribution.—A sum of Rs. 13,50,000, including the contribution for road works in Government estates, was set aside by this Government for grants-in-aid to district road and other incorporated local funds. The original estimate was Rs. 7,00,000 only, but the Lieutenant-Governor was enabled to increase the provision on learning, after the despatch of the budget, that large savings would be made in the public words grant for the past year. The Government of India accordingly entered Rs. 7,00,000 only; but they have since accorded sanction to the additional expenditure.

100. Two statements are appended to this Resolution, showing the actual receipts and disbursements—Imperial, Provincial and Local—for 1880-81, the regular estimate for 1881-82, and the estimates for 1882-83, as first estimated by this Government, as revised by the Financial Department of the Government of India and as now finally accented by the Lieutenant-Governor

ment of India, and as now finally accepted by the Lieutenant-Governor.

101. The total Provincial receipts for the year 1882-83 are estimated to amount to Rs. 4,01,56,000 and the estimated expenditure to Rs. 4,65,92,000 or Rs. 64,36,000 more than the receipts. The balance at credit of the Provincial Revenues on the 1st April 1882 will accordingly decrease by that amount, and will be reduced as shown in the statement to Rs. 8,13,000.

By order of the Lieutenant-Governor of Bengal,

COLMAN MACAULAY,

Secy. to the Govt. of Bengal.

# ESTIMATE OF

. REVENUES AND	1		ACCOUNTS	3, 1880-81.		REGULAR ESTIMATE, 1981-22.				LOCAL GOVER		
BECEIPTS.		Imporial.	Provincial.	Local.	Total.	Imperial.	Provincial.	Local.	Total.	Imperial.	Provincia	
		Ra.	Ra.	Rs.	Rn.	Rs.	Ra.	Rs.	Rd.	, Rn.	Ra.	
	1	1/4.	160.	4676.	15.00.	Ita.	25/7,	tto.	160.	, 100	460.	
pening balance	!	******	51,04.250	22,50,984	*****	****	49,91,000	19,02,000		-11.00	72,49,00	
ILand Revenue	. '	8,78,96,512	*****	1,21,671	3,75,18.083	8,75,36,000	• ••	1,14,000	8,76,50,000	2,63,51,000	1,24,99,00	
111Porcet	]	5.61,340	*****	b 4447	5,61,340	6,28,000		788111	6,28,000	3,55,000	8,55,00	
IVHacine	}	400-44	85,52,782		65,52,782	*****	95,00,000	*****	95,00,000	50,56,000	50,55,0	
VAssessed Taxes		13.03,001	8,50,000		16,53,001	13,00,000	3,50,000	10+100	16,50,000	8,00,000	8,00,0	
	***		55,15,287	37,18,545	72,33.832		35,50,000	86,00,000	71,50,000	*****	85,78,0	
		90,71,788	1,29,834		92,01,620	84,46,000	80,060	*****	85,26,010	88,24,000	85,0	
FIII.—Salt		2,38,47,388	1,55,041	***	2,89,82,420	2,38,40,000	1,60,000	*****	2,40,00,000	2,40,00,000	1,30,0	
***		7,75,01,795	1	.,	7,78,04,735	7,54,00,000			7,54,00,000	6,84,38,000	*****	
-			1,13,91,637	211124	1,13,91,637	443	1,20,00,000	*****	1,20,00,000	59,00,000	59,00,0	
XIRegistration			10,29,692		10,29,693		10,00,000		10,00,000	5,05,000	5,08,0	
		40404	*****	2,321	2,321		*****	8,000	9,000	241437	******	
XVMinor Departments.	1	*****	1,64,934	94,787	2,59,671		1,91,000	90,000	2.81,000	44.441	1,91,0	
IVI.—Low and Justico	. 1	•••••	17,58,289	801111	17,59,289		17,10,000		17,10,000	4.	17,10,0	
		100+00	4,86,130	*****	4,86,130		5,26,000		5,26,000		5,46,0	
modificate to a			12,75,687	314777	12,75,687	4-1-10	11,00,000		11,00,000	4	8,23,0	
WIN Williams			4,87,791		4,87,791		5,80,000	140.000	5,30,000	•		
			1,58,136		1,58,136	*** **	1,38,000	******	1,39,000	******	5,14,0	
XXI -Stationery an		2,461	1,22,071		1,24,532	******	1,22,000	******	1,22,000		1,42,0	
	F .	7,50,941	13,386	411444	7,64,327	7,36,000	20,000	1	7,56,000	7,13,000	21,0	
P. 17. 1		68,652			68,652	70,000		*****	70,000			
The same of the sa		29,86,123	7,53,154	1,11,234	58,50,511	65,000	0.55.000	0 40 000		88.000	71,0	
CVV - Dellamons	1						6,55,000	2,30,000	9,40,000	62,000		
	and l	*****	29,56,903	200-20	29,58,993	000104	82,19,000	*****	82,19,000	******	36.20,0	
			16,71,361	11,785	16,83,186		17,62,000	12,000	17,74,000	*****	18,90,0	
IVIIOther Public World	ka	******	6,96,296	2,896	6,89,193	*****	6,90,000	******	6,90,000		7,62,0	
KKK-Caiu by exchange		42,491	*****	*** ***	42,491	60,000	******		50,000	28,000	*****	
Total	1	5,38,35,430	3,56,40,401	40,63,089	19,35,88,920	14,80,71,000	8,73,03,000	40,44,000	18,94,18,000	14,00,19,000	8,99,01.0	
	1					•		-				
ntribution				1,94,061		*****	2,000	3,83,000	4****	*****	*******	
pertal allotment	.	*****	40,39,010	101.000	40000	44411	63,84,000	******		*****	******	
det		****	*****	57,741	*****		******	100000		400104	*****	
slance of the Estates In	1	****	*****	*10000	******	******			*		1,00,0	
GRAND TOTAL		*****	4,47,88,661	65,67,696	*****	1+940.	5,06,80,000	62,79,000			4,73,10,0	

RECEIPTS, 1882-88.

### BUDGET ESTIMATE, 1882-83.

ENT (ORIGINAL).		GOVERNMEN	op India, Di	PARTMENT OF	PIRABCE.	LOCAL GOVERNMENT (NEVISED).					
Local.	Total.	Imperial.	Provincial.	Local.	Total.	Imperial.	Provincial.	Local.	Total.		
Ro.	Ba.	Rs.	Ra.	Ra.	Ro.	Re.	Ra.	No.	Be.		
<b>18,000</b>	88,30,000		70,88,000	18,13,000	89,01,000		72,49,0m	16,18,000	100394		
	<b>9</b> 8,78,49,000	2,54,55,000	1,24,16,000		3,78,49,000	2,53,51,000	1,24,99,000		3,78,40,000		
	7,10,000	3,50,000	3,50,000	*****	7,00,000	8,50,000	3,50,000		7,00,600		
	1,01,10,000	\$0,55,000	50,55,000		1,01,10,000	50,55,000	20,55,000		1,01,10,600		
	16,00,000	8,00,000	8,00,000	****	16,00,000	8,00,000	8,00,000	31484	18,00,000		
36,81,000	72,59,000	******	35,76,000	36,81,000	72,57,000	*****	93,78,000	80,81,000	72,59,000		
i	89,09,000	30,00,000	85,010	*****	30,85,000	80,00,600	85,000		30,85,000		
	2,41,59,000	1,79,69,000	1,39,600	*****	1,81,08,000	1,79,69,000	1,39,000		1,81,08,000		
44	6,84,36,000	6,84,36,000		•	6,84,36,000	6,84,36,000	*****	*****	6,84,36,000		
44441	1,18,00,000	59,00,000	59,00,000	2774	1,18,00,000	60,00,000	60,00,000	1,111	1,20,00,000		
******	10,11,600	5,06,000	5,93,000	0	10,11,000	5,05,000	8,06,000	*****	10,11,000		
11,000	11,000	*****	0,00,00	11,000	11,000	******		11,000			
90,000	2,00,000		1,92,000	99,000	2,91,000		1.91,000	99,000			
	17,10,000	781.00	17,10,000		17.10,000	******	17,10,000		2)00]009		
140.00	B,46,000	*****		*****	5,46,000	***	8,46,000	*****	17,10,000		
14.444		11144	5,44,000	*****	8,23,000			4+1***	8,46,000		
	8,23,000	1#5***	8,25,000	*****		01140	8,23,000	.,	8,23,000		
	8,14,000	10	5,14,000	*****	5,14,000	*****	8,14,000		5,14,000		
491-41	1,42,600	*****	1,42,000	******	1,42,000	*** **	1,42,000	410 ***	1,42,000		
117,17	1,12,000	*****	1,12,000	137114	1,12,000		1,12,000		1,12,000		
4,000	7,38,000	7,13,000	21,000	4,000	7,38,000	7,13,000	21,000	4,000	7,38,000		
	71,000	742	71,000	******	71,000	******	71,000	1	71,000		
1,38,400	8,33,008	63,000	0,33,000	1,38,000	8,33,000	82,000	6,43,000	1,38,400	8,52,000		
******	30,20,000	100+00	31,92,000	*****	31,92,000	101000	36,20,000		36,20,400		
11,000	19,01,000	10000	18,90,000	11,000	19,01,000		18,90,000	11,000	19,01,000		
	7,02,000		7.02,000		7,02,000	*****	7,03,000		7,02,000		
010432	28,000	28,000	*****		28,000	28,000		*****	20,400		
39,44,000	18,38,64,000	12,82,82,000	8,98,74,000	39,44,000	17,18,70,000	12,82,59,000	3,99,90.000	\$9,44,000	17,21,99,000		
78 50,000		*****	2,000	7,00,000	******	492499	*****	13,50,000	044000		
******	*****	****		*****	*****			*****			
1+4	*****	*****		*****	*****	4			10140		
Arriva 1	-40.010	0	441671	. 4 > 0 0 0	*****	******	1,00,000		571140		
00,12,000		*****	4,67,64,000	. 84,57,000			4,74,08,000	69,12,000	******		

# ESTIMATE OF

		ACCOUNTS, 1880-S			. REGULAR ESTIMA			ATE, 1881-88.		Lo	LOCAL GOVERN	
	DISBURSEMENTS.	imperial. P	rovincial.	Local,	Total.	Imperial.	Provincial.	Local	Total.	· luperial.	Previncia	
_						•						
		Re.	Ru.	Rs.	Rs.	Re.	Re.	Re.	, Re.	Ro.	Re.	
l.	Interest on Debt	*****	36,31,804	*****	36,31,804		83,71,000	*11***	83,71,000	*****	85,16,00	
l.	Interest on other ac-	1,88,710			1,89,710	1,75,000			1,75,000	1,72,000		
	P. 4	4,66,278	7,38,748	38,848	12,43,974	<b>6,3</b> 0,000	7,50,000	11,000	11,91,000	5,91,000	6,30,0	
	- 15	4,96,320	27,30,228	1	32,26,548	4,23,000	27,00,000	11100	81,28,000	1,89,000		
6		8,35,359							3,96,000	2,93,500	81,94,0	
		1	0.01.018		8,35,359	8,96,000	3,70,000		8,70,000	1,35,000	3,32,5	
	Brcise	******	2,61,913	*****	2,61,913	******		684.11	1,90,000		1,35,0	
	Assessed Taxos	*****	1,68,399	3 PP 000	1,68,399		1,00,000	1 91 000		80,000	80,0	
4	Provincial Rates	434***	310	1,77,898	1,78,206	110.110	# DE 000	1,81,000	1,81,000	245480	100 × 84	
	Customs	45 355	0,98,034	14440	6,98,034	#1.000	6,95,000	+44444	6,95,000	99 000	7,08,	
	Salt	41,233	17,781	*****	59,014	31,000	22,000		89,000	33,000	20,	
		2,02,64,908	1,033	******	2,02,65,941	2,05,89,000			2,05,89,000	2,26,10,000		
	Stamps	191904	3,98,672	111000	8,96,672	400000	6,36,000	100 101	4,34,000	2,25,500	2,25.	
le	Registration	40000	6,37,702	40000	6,37.702	*****	6,09,000		6,09,000	8,17,000	8,16,	
î	Post Office	******	40114	2,93,603	2,93,603		171-10	3,05,000	8,05,000			
	Administration	2,63,021	14,70,321	97,544	18,30,886	2,67,000	14,86,000	1,01,000	18,54,000	8,67,000	14,68	
•	Minor Departments	80,131	2,75,215	53,012	4,08,358	4,72,000	8,00,000	\$3,000	8,25,000	31,000	8,06	
	Law and Justice	2,55,657	83,75,599	*****	86,31,253	2,60,000	64,28,000	*****	86,88,000m	*****	93,40	
١.	Police	*****	40,17,627	407748	40,17,627	*****	41,82,000		41,82,000	*****	45,81	
	Marine	*****	10,86,377	110100	10,86,377	*****	10,97,000	100144	10,97,000		8,28	
J.	Education	*****	25,55,778	11,963	25,68,741	*****	26,77,000	20,000	26,97,000	000.04	29,60	
l.	. Ecclesiastical	1,88,454	8,339	*** **	1,91,793	1,93,000	8,000	*****	2,01,000	2,02,000	*** **	
	Medical	8,52,407	11,10,035	16,534	14,79,036	8,58,000	10,93,000	14,000	14,65,000		14,98	
ß.	Stationery and Printing	13,36,555	9,46,269	18,591	23,01,415	13,80,000	9,37,000	18,000	23,35,000	9,65,000	10,04	
8.	Political	20,275			20,276	17,000	*****	*****	17,000	80,000		
7.	Allowaness	11,19,569	*****	*****	11,19,569	11,27,000	*****	445.44	11,27,000	11,41,000	448181	
8.	Leave Allowance	80,896	100400	*****	30,896	25,000	*****	000403	25,000	25,000	*****	
9.	Superannuation	11,91,169	2,069	83	11,93,271	9,45,000	5,000	*****	9,50,000	*****	10,25	
D	Miscellaneous	47,754	8,72,007	16,386	4,86,177	63,000	3,15,000	26,000	4,04,000	45,000	2,91	
8	Pailways	+0+0+4	18,98,315	.45.61	18,98,315	*****	32,16,900		82,16,000		35,7	
8	. Irrigation	*****	24,34,210	1,903	24,36,113	100408	37,61,0.0	2,000	87,63,000	444544	36.7	
6	. Other Public Works		47,59,644	38,06,976	85,65,620	*****	66,92,000	89,29,000	1,06,20,000	010.00	55,2	
kij	Loss by exchange	760	*****	001701	769	*****	000000		107111	41411	04 860	
	E C									-		
	Total	2,66,74,555	3,85,96,468	45,33,291	6,98,02,334	2,71,51,000	4,80,98,000	16,59,000	7,49,08,000	2,64,11,0.0	4,40,2	
	ontribution to Government	1	10.04.00									
	of India	41000	10,00,000	*****	*****	******	75-		*****	.,	18,5	
	other contribution	******	1,96,082	10000	4 + + 1 0 0	*****	8,80,000	8,000	*****	******		
	106	*****	*****	1,62,004	*****	*****	******	*****	44000	100701	041+1	
	alance of Estates Improve- ment Fund	*****	*****	*****	*****		*****	*****	*****	*41000		
C	losing balance		69,91,111	19,01,911	*****	*****	72,49,000	16,18,000		*****	10,5	
	GRAND TOTAL		4,47,83,661	65,67,896	861021	******	5,06,80,000	62,79,000	*****	*****	4,78,1	
P	movincial Surplus (+) or Deficit ()	401	-1,18,189	-8,49,078			+20,58,900				-63,	

EXPENDITURE, 1882-83.

BUDGET	ESTIMATE.	1882-83.
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BHT (OBIGINAL).		GOVERNMENT	OF INDIA, DE	PARTMENT OF	PERANCE.	LOCAL GOVERNMENT (REVISED).				
Local.	Total.	Imperial.	Provincial.	Local.	Total.	Imperial.	Provincial.	Local.	Total.	
									-	
Rs.	Re.	Rp.	Be.	Re.	Rs.	Ro.	Rs.	Re.	Ro.	
.,	85,16,000	00000	\$5,62,000	044101	85,62,000	4 4 2 1 3 4	35,62,600		85,62,00	
	· 1,72,000	1,72,000	*****	041000	1,72,000	1,72,000	*****	*****	1,72,00	
11,000	11,82,000	3,50,000	6,22,000	11,000	9,83,000	3,50,000	6,22,006	11,000	9,88,06	
301001	33,43,000	1,89,000	30,40,000	*****	82,38,000	1,89,000	80,84,000	******	89,78,00	
144407	4,45,000	2,20,000	2,20,000	*****	4,40,000	2,20,000	2,20,000	******	4,40,00	
495000	2,70,000	1,35,000	1,35,000	*****	2,70,000	1,35,000	1,35,000	******	2,70,00	
*****	1,00,000	50,000	50,000	90	1,00,000	50,000	80,000	******	1,00,00	
1,73,000	1,73,000	600>01	0,000	1,73,000	1,79,000		******	1,73,000	1,73,00	
	7,05,000	-2,000	5,69,000	***	8,67,000	-2,000	5,69,000		5,47,00	
	63,000	\$3,400	20,000	*****	53,000	33,000	20,000	*****	58,00	
	2,26,10,000	2,24,80,000	0.010	,	2,24,80,000	2,24,80,000			2,34,60,00	
4*****	4,51,000	2,26,000	2,25,000		4,51,000	2,26,000	2,25,000	*****	4,51,00	
492199	6,33,000	8,16,000	3,17,000		6,33,000	5,16,000	3,16,000		6,28,00	
3,28,000	3,28,000	4		3,18,000	3,18,000		141,	3,28,000	3,19,0	
1,07,000	16,42,000	2,67,000	14,68,000	1,07,000	18,42,000	2,67,000	14,68,000	1,07,000	18,62,66	
\$6,000	8,93,000	0,000	8,06,000	56,000	3,68,000	6,000	8,06,000	56,000		
	93,49,000						93,69,000		3,66,0	
*****		<b>→</b>	93,69,000	*****	93,09,040	*****			98,69,0	
*****	45,81,000	*****	45,81,000	*****	45,81,000		45,81,000	*****	45,81,0	
*****	8,28,000	464111	8,29,000	11-20	8,28,000	******	8,28,000	4.0.44	8,28,0	
414414	29,60,000		29,60,000		29,60,000	0.40.000	20,60,000	******	29,00,0	
*****	2,02,000	2,02,000		******	2,02,000	2,02,000	*****	*****	3,02,00	
12,000	14,38,000	******	14,29,000	12,000	14,41,000		14,26,000	12,000	14,38,0	
18,000	12,87,000	2,65,000	10,04,000	18,000	12,87,000	2,65,000	10,04,000	18,000	12,37,0	
*****	30,000	80,000	******	*****	30,000	30,000	*****	*****	86,0	
*****	11,41,000	11,41,000	011-01	40000	11,41,000	11,41,000	649.20	*****	11,41,0	
005704	25,000	25,000	44444	000000	25,000	25,000	*****	001746	25,0	
441.144	10,28,000	*****	10,28,000	*****	10,28,000	****	10,28,000	*****	10,28,0	
22,000	3,59,000	45,000	12,92,000	22,000	3,59,000	48,000	2,92,000	22,000	8,59,0	
889141	35,70,060	*****	85,71,000	*****	85,71,0+0	*****	35,70,000		35,70,6	
407153	86,72,000	******	36,72,000	2,000	36,74,000	*****	86,12,000	44224	86,72,0	
45,72,000	1,01,01,000	*****	57,29,000	46,78,000	1,04,77,000	0.00 4 9 1	57,99,000	45,72,000	1,04,77,0	
*******	*****		P41043	410010	*****	.,,,,,	******	*****	4401++	
82,99,000	7,66,37,000	3,61,50,000	4,50,82,000	63,97,000	7,66,39,400	2,61,50,000	4,51,06,000	58,99,000	7,65,55,0	
(more)		, ,	1,36,000	001100		,,,,,,	1,38,000			
11×000	11100	,	7,00,000	3,000	10000		13,50,000		+00144	
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14,58,900	*****	9.0000	8,46,000	10,48,000	19990		8,13,000	14,53,000		
00,12,000	045 **	*8000	4,67,64,000	64,57,000	******	<b>♦</b> ⊕ ⊕ ₹ 1.10	4,74,95,000	69,12,000	406701	
-1,85,000	****		-63,46,000	-7,85,000	000000	*****	-64,36,000	=1.45.000	· - · · · · · ·	

# TRAINING, SELECTION, AND QUALIFICATION OF OFFICERS FOR CHARGE OF DISTRICT TREASURIES.

# APPOINTMENT DEPARTMENT. Dated Calcutta, the 28th March 1882. RESOLUTION.

A Resolution of the Government of India in the Department of Finance and Commerce. No. 355, dated the 18th January 1882, on the question of the admini-tration of district and sub divisional treasuries in India, and on the system for their management and inspection.

#### Read also-

The Notification of this Government, duted the 18th November 1879, containing the rules for the regulation of the departmental examinations of Assistant Magist: ates, Deputy Magistrates and other officers.

The Resolution of the Government of India, mentioned in the preamble, was published in the Calcutta Gazette of the 25th January 1882. Paragraphs 5 to 7 of that Resolution contain orders regarding the training, selection and qualification of officers who are to be placed in charge of treasuries. a view to giving early effect to those orders, the Lieutenant-Governor directs-

no Covenanted Civil Servant (including Military Uncovenanted Officers in the Commissions of the Non-Regulation Provinces) shall in future be placed in charge of a district treasury except for the purposes of training as provided hereinafter, or as a strictly temporary measure pending the prival of a duly qualified Deputy Collector appointed to the post;

(II) that the charge of district treasuries shall be entrusted to Uncovenanted Deputy Collectors selected from among the whole body of Deputy Collectors on account of their special acquaintance with, or aptitude for, accounts. These officers shall, as regards promotion, be on precisely the same footing as officers employed on general or magisterial duties;

(III) that no officer shall be placed in charge of a district treasury who has not passed the departmental examination by the higher standard, and who has not been employed as a Deputy Collector for at least three years.

An officer who has once elected or been appointed to this department of the public service shall remain in it for three years; he will be liable to be sent from one district to another, but such transfers will be made as seldom as possible

3. Treasury officers may have such magisterial, revenue, or municipal duties made over to them as the District Officer may consider to be compatible with the efficient performance of the primary duty of treasury administration.

4. It is the duty of Commissioners and District Officers to see that young officers, until they have passed the higher departmental examination, are allowed opportunities of gaining practical acquaintance with the duties of a treasury officer, and that they are placed for the purposes of training in charge of district treasuries under the general supervision of the Deputy Collector ordinarily in charge, or of some other competent officer on the spot, for a period of not less than six weeks, or more than two months, in each year. A certificate from the Collector of the district that each officer in training has, under these provisions, duly attended to, and satisfactorily discharged, the duties of treasury officer, shall be indispensable to his being declared to have passed any departmental examination. The Collector will see that this certificate is forwarded to the Central Examination Committee at cach departmental examination.

5. The Lieutenant-Governor desires that Commissioners of Divisions will at once proceed to select properly qualified treasury officers in the several districts of their divisions, and that they will report to Government in the Appointment Department the names of the officers thus selected. 6. Assistant Magistrates and Deputy Collectors are at present liable, under the notification of the 18th November 1579, to examination with the aid of books in the circular orders of the Comptroller-General, the Accountant-General, and the Board of Revenue. In order, however, to ensure a better acquaintance with the system of treasury and revenue accounts, the Government of India have now directed that examination in treasury and local fund accounts, and in departmental revenue accounts, shall form a part of the test obligatory on all Assistant and Deputy Collectors at the departmental examinations according to both the lower and higher standards. The Government of India observe that the scope of the questions at the former will necessarily be somewhat elementary, but candidates at the latter should be required to exhibit a satisfactory general acquaintance with the whole system of accounts prevailing in the province in which they are employed.

• 7. In compliance with these orders, the Lieutenant-Governor directs that in future separate papers on treasury and local fund accounts shall be set by the Accountant-General in communication with the Central Examination Committee, and that these papers shall form part of the examination under each standard with the aid of books. These orders will not take effect until the examination which is to be held in October 1882. Officers who fail to pass fully in compulsory subjects by the higher standard at the next examination in May will be fiable to examination in the papers on accounts at all subsequent exami-

nations.

ORDER.—Ordered that a copy of this Resolution be communicated to all Commissioners of Divisions, District Officers, Accountant-General, Board of Revenue, and Central Examination Committee, for information.

By order of the Lieutenant-Governor of Bengal,

HORACE A. COCKERELL,

Secretary to the Government of Bengal.

#### LIBERALITY OF SYED AMEER HOSSEIN.

No. 249, dated Calcutta, the 18th April 1882.

From—C. S. BAYLEY, Esq., Offg. Under-Secretary to the Government of Bengal, To—The Director of Public Instruction.

I AM directed to acknowledge the receipt of your letter No. 2277, dated the 12th instant, with enclosure, in which you report the offer of Syed Ameer Hossein, Deputy Magistrate of the 24-Pergunnahs, to found a scholarship of the monthly value of Rs. 20, tenable for two years, at the Government Engineering College, Seebpore, by a Mahomedan boy, being a native of Bengal or Behar, who, after passing the Entrance examination, may be selected to hold it by the Director of Public Instruction.

In accepting the offer, the Lieutenant-G-vernor desires that an expression of his cordial thanks may be conveyed to Syed Ameer Hossein for this act of liberality, and of his high appreciation of the public spirit which he has displayed and of the motives by which he has been actuated in the

bestowal of his gift.

Sir Ashley Eden has much pleasure in according to the wish expressed by Syed Ameer Hossein that the scholarship should be known as the "Eden" Scholarship.

3. The correspondence on the subject will be published in the next issue of the Calcutta Gazette.

No. 2277, dated Calcutta, the 12th April 1882.

From -A. CROFT, Esq., Director of Public Instruction, Bengal, To-The Secretary to the Government of Bougal, General Department.

I HAVE the honour to submit copy of a letter from Syed Ameer Ho-sein. Deputy Magistrate of the 24-Pergumans, in which he proposes to found a scholarship of Rs. 20 a month for the purpose of enabling a Mahomedan boy to read in the Engineering Department of the Seebpore College, and encloses a cheque for Rs. 500 in payment of the cost of the first scholarship.

2. I have the honour to recommend that the Syed's beneficent offer be accepted, and that the correspondence be published in the Calcutta

Gazette.

#### Dated Alipore, the 10th April 188?.

From-Syrb Ameer Hossein, Deputy Magistrate and Collector, Alipore, To-The Director of Public Instruction.

I SHALL feel highly obliged to you if you will forward this to His Honor the Lieutenant-

Governor of Bengal for his favourable considerati n.

2. As a humble tribute of gratitude to His Honor Sir Ashley Eden for the kindness he has always shown to me, and for the interest he has invariably taken in the cause of Mahomedan education, I propose to found a scholarship of Rs. 20 a month in his honour

on the eve of his departure from this country.

The scholarship should be called the "Eden Scholarship," and should be tenable for two years at the Seebpore Engineering College by a Mahomedan of Bengal or Behar, who has passed the Entrance examination, and who may be selected by the Director of Public

Instruction.

8. I enclose a cheque for Rs. 500 payable to you. Rs. 480 should be paid to the selected student at the rate of Rs. 20 a month, and remaining Rs. 20 should be given to him as a donation to meet the price of books on his entering the College. I shall continue to pay the sum of Rs. 500 every two years during my lifetime, or until I may be in a position to make a permanent endowment.

4. I respectfully trust that His Honor will be graciously pleased to accept this

humble offer of mine.

#### Rainfall, Weather, and State and Prospects of the Orops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different Districts of Bengal, as reported to Government during the week ending the 15th April 1882.

No	D.	District, and date of	d	Rainfall at Sudder Station in inches.	Character of the weather, state and prospects of the crops, and
EN	GA	l. Western Districts.			
	1	Hurdwan,	8.4.1	*** = **	Report not received.
	2	Bankoora, April 15	'82	Nil	Weather-cool mornings, hot days, and cloudy evenings. There was alight rain in different parts of the district, but it did no material good to the standing crops. Sugarcane grafts are being transplanted in Kotulpore. Mor
	3	licerbhoom, , 15	,,	Nil	rain is wanted. Public health good.  Weather-cloudy. Some rain fell at Rampore Haut, and ploughing has begun
-	4	Mianapore, " 15	9.	0:40	Chelera and cartle disease prevalent.  Weather hot. Cloudy in the latter part of the day. Scarcely any crop in the
i	,				field except boro rice in the Ghatal sub-division, which is doing well. Publ health good.
	5	Hooghly, " 15	93		W. a her—seasonable. State and prospects of crops good. A good many cases cattle-disease in thanns Singsor and Pandoon.
		Moneshiekha	**	0.08	Weather-hot generally; storm appears to be gathering. Boro paddy doir well. dice still cheap. General health good.
8		Central Districts.			
1	6	24-Pergunnaha, April 17	7 '82	0.16	Wenther-seasonable; occasionally cloudy. No crops on the land. Ploughin continues. Public health generally good. Chelera reported from the Barass
-	7	Nudden, " 15	30	> + 4 + 4 +	sub-division.  Wenther-cloudy and hot, though cool for the time of year. Sowing of ans sti
١		Kooshten.		0.78 0.50	going on. Rain still wanted in some parts of the district. Fever slightly better in some places, but stationary in others. Cholera worse in one or two
		Choondanga		0.98	places
	8	Ramaghat Jessore " 15	9. }	0.35	Weather-close and sultry, though the nights and early mornings are still con-
		Jhenida		1.15	Boro paddy is being reaped. The area sown with boro puddy is smaller than
1		Magoora Narail		0.54	usual Sowings for the free crop are actively progressing. Prospects of indiccontinue good. Fublic health improved, but an outbreak of cholera is reported.
I		Khuina		0.35	from the Narail sub division.
1	y	Bagirhat Moorahedabad, , 15	**	Nii 1	Weather—very warm. Harvest of winter crops is an average one Rain is no much wanted for ploughing and sowing. Cholega has not yet totally disappears from Jungypore. It is also somewhat bad at Randollah in that
1	10	Diungepore, April 14	'82	0.09	Bhugwangola. Weather—seasonable. Bhadoi sowings progressing. Mango crop will be almost
	11	Rajshabye, ,, 15	31	Nil	a complete failure. Price of rice from 22 to 39 seers per rupec.  Want of rain most severely felt Amun enddy being sown broadcast low lands. Sowing of other paddy and crops stopped for want of rai Rice gradually rising in price; now 26 seers per rupec. Cholera and fever sti
	12	Rungpore, ,, 14		1.43	reported in several places.  Weather—sensonable. Standing crops are in good condition. Public healt generally good, excepting in thana Uleepore where cholera has again broke out.
1	15	Bogra, " 15	9.1	0.13	Weather - sensonable. Slight rain at the beginning of the week. Lands at nearly ready for ass. Standing crops promise well, but more rain wanter
	14	Pubna, ,, 15	4)	Nil	Health good. Weather hot and dry. No rain. Rain wanted for rice and juto sowing
ı	1.5	Darjeeling " 15	0 22	1.02	Public health satisfactory, but there have been a few cases of cholera but.  Weather—clearer. Tea gardens rather backward for the season in the Term
	16	Junigores, ., 15	31	Nil	Crops in the hills doing well. Cholera has not increased.  Weather—cool at the beginning of the week, but since that time very warm
-		Cooch Behar, , 14	2 1	1.50	Crops are generally promising Land is being prepared for bhadoi paddy. Weather—warm. Prospects of cheena, kaon and bitri rice are favourable. Richards.
		Dinhatta	***	0.44	sells at Rs. 2 per maund. Cholora is still very severe in the Dinhatta au
		. Mathabhanga Meckligunge		0.25	division.
		Bastern Vistriots.			
	17	Manickgunge (for vending 12th Apr	reek	2.44	Weather—the beat on several days since the rain ceased has been very oppressive Sowing of aus rice and jute, and planting of sugarcane coing on. Land mois Sufflower, bringal, and water-melon harvested; outturn not reported. Chem.
1		Moonshigunge (for we ending 12th April		1.68	an 8-anna crop in Manick gauge Boro paddy being harvested.
1	18	Furrerapore. " 15	31	0.45	Wenther-neasonable; getting very hot Scarcely any crop on the ground, b
1	19	Madaripore Unchergunge, ,, 18	19	0.45	puddy on the churs coming up very well.  Weather—a short but sharp squall on the afternoon of 9th, het during the reference. In agricultural opera ions there is little acing. Public head still bad. Fifty deaths from cholera reported from the Sudder thans during tweek, and 98 from Gulsakhali. There have been some fatal cases of dip
1	20	Mymenamah, " 14		0.95	theria in Barrisaul. Weather—hot and sultry. Storm with hail on Sth. Prospects of crops good.

No		District, 21	and date	e of	11	Rainfall at Sudder Station in inches	
EH	AR	-contd.					
nate	ma I	Districts—cont	td				
			April	18	182	Nil	Weather-variable, with hot days and cool nights. Transplanting of ane cro
		'hittagong		18			commenced in some places. Mango crop is a faiture, Prices steady. Small pox and cholers still continue. General health fair.  Wasther cloudy and hot, with occasional rain. High southerly wind up to the
							11th Moong and chillies being harvested. Ass paddy being sown in some places. Young plants of ass paddy look well.  Weather - stormy. Prospects of crops good; they have been much improved by
		Tipperah, Brahmun Chandpor	re re	14	91	2·37 2·15	the rain.
	1	Chittagous H	fill		P 4 1		Report not received.
	1	Tracts. Hill Tipperab	, April	12	'82	3.59	Weather-sultry. Land being prepared for sowing ane paddy and for planting augureane. No important crops in the field. Public health good.
KH	lar						•
1	25	Patna,	April	1 15	'82	Nil	Weather—hot. Rubbee outturn below the average. A few cases of small pox reported from the Behar and Seloo police stations Cholera reported from Futwah.
-	26	Gya,	99	15	31	Slight rain on the 9th.	Weather—hot during the day, sometimes cloudy. Maximum reading of therm meter in shade 104°. Harvesting of rubbee nearly finished; outturn below the course of fewer and small-pox reported in the interior
1		Suchabad, Durbhuuga,		15 15		Nil Nil	Weather hot and calm. Outturn of rubbee below the average.
1		Wozufierpore	• *	15	3 '8"		very good. A little cholers in the south and east. Prices rising slightly.  Weather—hot, sometimes cloudy. Standing crops continue to look well. Research chiefly in purthern part of the district. Public health good.
-	80	Sarun	8.0	15	11	Sil	Weather hot during the day with stendy west winds, still cool at night Threshing of rubbes crops still going on. Chassa and early rice being sow.
	31	Coump erun,	94	15	94	Nil	Indigo looking well. General health good.  Weather—hot in the day, cool in the night. Rubbee crops are being threshe Indigo coming on well. Opium weighments in progress. Public health good
1	82	Monghyr,	Apri	il 15	182	Nil	Weather -seasonable. Rubbee harvest nearly completed; average outton
			,,	15	90	Slight rain on	Weather—hot. Easterly wind during first part of week; latterly westerly win Rain wanted to facilitate preparation of land for paddy sowings. Price of riches risen. Cholera very prevalent, and has assumed an epidemic form
	34	Purnesh.		15	2)	0.14	Behipore and Kissengunge.  Weather—fine. Wheat harvest being finished. Prospects fair. Cholera press
)		Arrareab				0 19 Nil	Wanthan mather less hot than during the previous week. No west wis
	85	Maldah	99	16	) ,,	49 20	Rain much wanted new for cultivation and sowing of backers paday. From of food-grains have risen a little. Common rice is selling at from 28
1	86	1		15		Nil A few	Weather—hot, tempered by passing clouds. Cheena being sown in Goods as late arker being barvested there. The mobile crop is poor; the crop is a very late of food both
		Jamtara Jamtara			**	drops.	important one in this district, being used locally as an article of food both unan and cattle, and exported in large quantities for the manufacture
38	ARGI						country spirits.
		Cuttack,	Apr	ril 1	4 '82	2 0.05	wanted for a steen as well as for carrying on cultivation. Common rice well
IN A BOX	. 88	Pooret,		, 13	3 ,,	0.11	from 25 to 32 seers per rupee. Sporadic cases of cholers in some parts the district.  Westless has Land is still being tilled for sared crop. Dalus rice is be
ORIGINA DIVE							hervested. Miscellaneous crops are promising. Common rice sells at a 30 to 38 Calcutta seers per rupee, Cattle-disease still reported. Che
	89	Halasore,	99	14	4 ,.	2.50	Several showers and one very heavy storm. Temperature has been gre- reduced. Ryots have taken advantage of the rain to plough. There is cholera in many parts, but, owing probably to the rain, it has gre-
CH	OTA	NAGPORK.	4				decressed.
		South W		ronti	ier		
	40		<i>епоу.</i> и, Арт	ril 1	4 '8	0.20	grains have slightly risen. Some isolated cases of small-pox reported
	61	Lobardugge	h <sub>2</sub> ,	, 1	15 ,,	0.13	for ploughing. No crops on the ground. Prices show a tendency
	42	Singbhoom,		, 1	l. <b>6</b> ,,	0.08	Weather—unsettled. Stormy and much cooler. The mange crop has ent failed. Mohus has given only a 4-anna crop over the greater part of
	43	3 Manbhoom,	le gr	, 1	15 ,,	0.25	district. Rain is inqui needed for pind and a little noise, otherwise h

CALCUITA, STATISTICAL DEPT., The 18th April 1882.

Offg. Secy. to the Gout. of Bengsh.

COLMAN MACAULAY, Off.g. Secy. to the Gost. of Bengal.

STATEMENT SHOWING THE STOCKS OF RICE IN AND AROUND CALCUTTA.

					Sro	STOCES IN HAND AS COMPILED ON	COMPLED ON-		4				
NAMES OF MARTS.	ist week of April 1891.	lst week of May 1891.	1st week of June 1831.	1st week of July 1881.	lst week of Aug. 1881.	1st week of Sept. 1881.	2nd week bf Oct 1981.	1st week of Nov. 1831.	1st week of Dec. 1881.	ist week of Jan. 1992.	dat week of Peb. 1893.	let week of Mar. 1882.	1st week of April 1882.
	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Más.	Mds.	Mds.	Mds.	Mds.	Mds
Balinghatta	3,90,000	3,99,500	4,13,000	3,78,000	\$,19,300	93,600	8,10,000	2,48,000	2,01,000	2,92,000	4,78,500	5,66,000	6,54,008
Ooltadangs	71,900	002,700	67,800	69,200	61,200	28,200	47,300	41.400	41,900	45,200	41,900	72,900	78,100
Onitpore, Golabaree, Coomer- tooly, Hatkhola, and Culpy Ghat.	000'58'9	6,67,300	6,40,700	6,18,700	6,29,800	6,29,400	2,85,400	7,45,300	7,56,000	7,80,300	6,19,700	6,53,100	7.62,908
Pathuriachatta, Posta, and Jorabagan,	37,600	\$7,000	35,000	29,500	28,600	24,000	29,000	35,700	24,000	25,700	24,500	24,500	38,600
Tollygunge, Chitlab, Kidderpore, and Monshigunge.	1,26,800	1,20,500	1,18,400	1,12,300	1,52,000	1,52,900	1,23,900	95,400	88,300	90,000	1,48,250	1,86,000	1,66,960
Minor Basars (estimated)	2,40,660	2,40,000	2,46,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40.000	2,40,000	\$,40,000	2,40,000	2,45,000	2,40,000
Other retail shops, 3,129 in number (oftmated).	2,60,000	2,50,000	2,50,500	\$,50,000	2,50,000	2,50,000	2,50,000	2,50,000	\$50,000	2,50,000	3,50,000	2,50,000	2,60,000
Boldyabatty, Nowabgunge, Bluddesour, and Chauder- nagore.	64,200	50,453	22.	\$6,098	\$6,100	68,400	65,158	42,700	20,531	38,325	15,919	8996	8,150
Total	18,75,900	18,53,453	17,99,019	17,53,794	17,66,900	17,07,500	16,50,756	16,98,500	16,16,781	17,85,525	18,18,769	20,31,462	21,73,100
aides of the river.  By Port Com- loaded turns.	4,612 (on 4th April 81.) 48,887 (1st to 3rd April 81.)	\$,342 (on 4th May 91.) 20,115 (1st to 3rd May 81.)	780 June 5t.) 14.283 (18t to 3rd June 51.)	1.099 (en 515 Ju.v. 84.) 22.317 (3rd to 5th July 81.)	48," (6 (13t to Srd	1,374 (on 3cd Sept. 41) 37,435 (1st to red Sept. 41.)	2.858 (on 15th Oct. 81.) 37,198 (15th to 15th Oct. 81.)	800 (on 5th Nov. 5t.) 14.805 (4th to sth Nov. 5t.)	6,218 fon 3rd Dec. 81.) 28,118 (1st to 3rd Dec. 81.)	7.838 (on and Jan. 82,0 61,008 (181,10 3rd Jan. 82,)	6.176 (cm 3rd Feb. 82.) 58,583 (1s. to 3rd Feb. 32.)	7,146 (on Srd Mar. 82.) 45,838 (1st to 3rd Mar. 82.)	Con 4th Opril 82.) 34,100 (2nd to 4th April 82.)
(By Canal returns	(1st to 3rd April 81.)	(1st to 3rd May 81.)	52,163 (1st to 3rd June 51.)	49.359 (3rd to 5th July 81.)	(184 to 3rd Aug. 81.)	80,038 (15,15,01)	(19th to lith Oct. SL.)	35,e24 (4th to 8th Nov. 31.)	28,084 (1st to 3rd Duc. 81.)	1,15,108 (1st to 3rd Jan. 82.)	1,69,261 (1st to 3rd Peb. 82.)	1.37,882 (1st to 3rd Mar. 82.)	(2nd to sta April 82.)
Grand Total of Stocks	19,92,933	19,16,477	19,71,255	18,00,530	18,69,089	18,06,777	17,39,843	17,49,019	91776	19,49,657	10,51,801	29.29.30B	25,08,081
Probable stocks available for expertation by sea.	99 lakhs.	8\$ lakhe.	8g lakhs.	74 lakits.	8 lakits.	7) lakie.	7 lakhs.	7 lakhs.	6½ lakits.	9 lakbs.	10 lakbs.	114 lakha.	13 takbe.

• STATISTICAL DEPARTMENT, The 12th April 1882. Results of the Meteorological Observations taken at the Alipore Observatory from 9th to 15th April 1882.

			1436	Tı	BMPERA	TURB.		E	ITOROM	RTET.		WIND.		
Month.	Date.	Maximum in 100.	Mean presente bacometer at 39º Pahr.	Mean.	Maximum.	Ruge.	Rimeren tock.	Mean wet buib.	Vapour tennion.	Dew point.	Humidity.	Prevailing direction.	Rain.	Weaten.
1003.		Θ	Inches	0	e	ا ت	0	0	Inches	0	9/0	4	Luches	
April	9th	151.7	29 776	82.8	93:7	18.9	75.2	77 7	0.894	75.5	79	. 18	Nil Nil	Cloudy.
98	10th	161.6	755	81.0	95.8	20.8	75.0	75.7	-810	73:2	77	SSW and variable 20	0.14	Cloudy, o, g.
. 00	11th	150%	·760	81.2	96'5	20.8	69.7	73.7	.725	69.6	67	S by W and variable 19	Nil Nil	Clondy, lr.
2m	12th	160.7	.770	84.1	96.5	26.6	69.8	71.7	.612	61.7	55	NW and variable 11	6 10	Cloudy.
	18tb	169.7	.784	81.3	97.5	28 8	08.7	69.8	'675	62 9	54	SW, and N by W 18	38 ,,	Chiefly cloudy.
	16th	161-7	.775	83.6	96.98	27:3	69.6	67.5	'461	56.7	40	N by W, and NW by N	i6 ,,	Cloudy, o.
99	15th	165.7	718	81.7	97'8	28:2	6916	67:4	'481	57-9	44	SW and variable	2 ,,	Chiefly oloudy.
1	The s The s The s	nean (	tempera	ure o  ture  eratu	of the re of ten	corre	en day	ys oondi lurin	ng per	riod f	or 2			99.763 29.748 \$\infty\$ 82.3 85.0 29.1
														97.8
E.	The b	ighes	t veloci	ity of	the v	vind i	n one	hou	r duri	ng th	16 81	even days	+ 0 0	18
Π,	The b	ighes	t pressu	are of	the '	wind o	on on	e squ	are fo	ot di	rin	g the seven days		11
														%
	_	nesn i	relative	bum	idity	durin	g the	seve	nondir	e ng pe	niod	for 24 years, S. G. Office		59
1	The n	verag	e relati	ve bu	1001011	y Or	VILL O	22200		-P P	LIOU	, , , , , , , , , , , , , , , , , , , ,		69
B	The a	verag	e relati								riou	, , , , , , , , , , , , , , , , , , , ,		Inches,
	The a	otal f	e relati	ain fr	on 9	th to	15th	Apri	1 188	2		0.00	•••	100hos. 0·14
	The a The t	otal f	e relati	ain fr	on 9	th to	15th	Apri perio	1 188 d for	2 24 ye		S. G. Office		Inches.

The mean pressure, temperature. &c., are deduced from the traces of the Barograph and Thermograph, and from observations made at 6h, 10h, 16h, and 22h.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard Newman's No. 86,

formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The direction of the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

o overcast, g gloomy, t thunder, < lightning, / strong wind, p passing temporary showers, lf lightning reflection.

METROROLOGICAL OFFICE, INDIA, The 17th April 1882.

HENRY F. BLANFORD, Meteorological Reporter to the (vovernment of India.

#### Results of the Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 9th to 15th April 1882.

									1					1
	MORTE.			Date		Mean.	Naziorem.	Range.	Minimum.	Man wet bulb.	Vapour tension.	Dew point.	Hazaidity.	Rain
	1889.					0	0	0	0	0	Inches.	0	%	Inches
pri		0 000 000 000	107	9th 10th 11th 12th 13th 14th 15th	***	64.1 84.3 82.6 83.9 84.0 84.0 84.6	95:0 96:8 97:6 96:8 98:6 97:8 99:7	18:2 20:5 26:8 21:7 24:0 23:0 24:9	76 8 76 3 70 8 75 1 74 6 74 8 74 8	76:0 76:9 73:9 71:0 70:7 70:1 70:2	'790 '826 '721 '586 '674 '551 '558	72·1 73·5 69·5 63·4 62·8 61·7 61·5	69 70 64 50 49 47 46	Nil.

The mean temperature of the seven days	0.00		83-9
The extreme variation of temperature during the seven days	1 0 1		280
The maximum temperature during the seven days			99.7
The mean relative humidity during the seven days	1 6 4	101	°/ <sub>0</sub> 56
The total fall of rain from 9th to 15th April 1882	* * *		Inches 0.22

The mean temperature and humidity are obtained by applying to the means of the 10h, 16h, and minimum readings a correction dependent on the range, and derived from the hourly observations at the Surveyor-General's Office, Chowringhee, in past years.

METBOROLOGICAL OFFICE, INDIA, The 17th April 1882. HENRY F. BLANFORD.

Meteorological Reporter to the Govt. of India.

# PUBLIC WORKS DEPARTMENT, - BENGAL.

# IRRIGATION BRANCH.

Statement showing heights over mean sea-level and low water on Rivers Ganges, Bhagiruthee, and Brahmapootra for the month of March 1882.

	4	•		Height over mean sea-lavel.		10.701 10.705	.C.,
	GOWING			Height over zero of grages.	helow zero	1.60 1.40 1.40 2.10 2.10 2.10 2.10 1.70 1.70 1.70 1.70 1.70 1.70 1.70 1	M.S.C.,
	skhar.		eroq	Height over mean sea level.		在 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Major,
:	Krishnaghur.	02 .	marited morg	Height over zero	below 29ro	0.011 0.011 0.012 0.012 0.013	NEARLE.
	Berhampore.	1		Height po over mean sea-level, i		C 12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2
	Berhi			Height morer zer		0.7.0 0.0.0 0.	(;)
	Goalundo.	120.	Prom Banpord	Height Height Beight year zern over meanlover Zern of gauge, sea-level, of gauge.		9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	
	Gon	169	Бегон Волянов	NAME AND ADDRESS OF		1000 1100 1100 1100 1100 1100 1100 110	
1	Rampore Bauleah.	*06	капка Блот Зарер-	Height over mean sea-level.		40 9 9 4 4 5 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	
1	Rampore	.174	From Benures	Height over zero of gauge.	below sero	11.03 11.03	
	nunge.	'\$6	From Monghyr	Height over mean sea-level.		61.55 61.55 61.15 61.17	
#	Saliebeninge	.188	sonans8 monu	Height of gauge.	below zero	66666666666666666666666666666666666666	
	ghyr.	'011	930qanid mori	Height over mean sex-lovel	•	98.93 98 98.93 98 98 98 98 98 98 98 98 98 98 98 98 98	
RIVER GANGES.	Mong	187	From 'tenares	Height nover zero of gauge.	belowzer		
RIVER GAS	Dinapore.	.78	issud mort	- A - A - A - A - A - A - A - A - A - A		160.58 160.58 160.58 160.58 160.58 160.58 160.58 160.58 160.58 160.58 160.58 160.58	
8	Dim	-411	From Benares	Height over zer		4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	
	Butar.	*06	Form Benares	Height Height over zero over mean of gauge. See-level.		168'55 168'47 168'47 168'47 168'47 168'33 168'33 168'33 168'34 168'47 16	
	Bu			Hei	below zero	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	
	Benaros.			Height nover mean		195745 195785 195782 195782 195782 195782 195793 195719 195713 195713 195703 195703 195703 195703 195703 195703 195703 195703	
	Ben			Height nover zero	below zero	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	
	Mirrapore.			Height over mean sea-lovel.		201-100 201-10	
	Min			Height of gauge	below sero		
		Milon	.eomaleic	1	-		-

Dated 6th April 1882.

#### PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

Statements showing the total amount of Traffic and Tolls on the Canals for the month of February 1882.

#### ORISSA CIRCLE.

#### Taldundah Canal.

#### LENGTH OF CANAL OPEN-27 MILES.

Jo	•			APPRO	XIMATE	TONNAGE	BOATS.	_		Rate of
Number boats.	Na	ture of c	argo.	Weight of cargo.	Value of cargo.	Maunds.	Tons.	Ton- mileage.	Tollage.	toll per ton-mile
			٠		TRAFF	IC.				

1 2 1 1 65 22	Bess grass Kandaur * Till-seed Fuel Passengers Empty		101		Z.	1,169 668 80 83.5	100 100 1,500 20	424 1,695 1,662 451 43,821 5,345	15 60 38 16 1,547 191	330 665 38 32 3,014 1,528	4 5 3 4 1 5 3 2 4 0 216 10 11 16 4 11	*****
106				Total	***	0,050	4,927	58,093	2,074	6,971	275 6 7	0 76
77	Total of	ame	montl	last year	***	5,500	15,957	27,216	972	7,045	160 1 0	0 6'0
	Mxi	CELI	ANEO	Vs.					1			
111	5 Logs	148	***	141	***		8	1.1.11	80.0110	00000	0 7 6	*** **
0.01	8 Gyles		0.4.0	444 111		*** **	-1		*****		0 1 4	44 * * * *
9.4.4	4,400 Bamboos			101	***	44114	75	******	*****		5 9 0	
4 4 4	3,544 Passengers	000	***	444	0.0 *			******	** *** 1		18 9 4	44944
				Total			88		Park way	****	19 10 2	
	Total of a	anio t	month	last year		14111	440 ;	11071			46 11 6	*****

#### (2)-STORES AND MATERIALS FOR IRRIGATION WORKS.

23 36 2 86	Mile stones		***	***	107			9,06\$ 14,292 698	314 586 110	16,009 24,904 1,266 16,724	572 889 45 598	1,716 9,784 90 4,182	40 0 3 119 6 10 6 4 10 56 8 6	******
117						Total	***	21,040	1,010	58,897	2,104	15,772	292 2 3	0 2.7
10	Tota	l of as	rme m	onth	last	year		2,139	649	5,391	140	379	22 8 11	0 114
		Misc	BLLA	MEQU	6.									
110			Nil				Ì	440.01	000 000	*** **	*****		11161)	***
111					-	<b>Total</b>								
	1		me mo				1 444							

106 117	Private, including miscellaneous	6,009 24,040	5,015 1,910	58,093 59,897	2,074 2,104	6,971 15,772	294 202	9	0.45	11000
228	Grand Total	30,118	6,025	1,16,790	4,178	22,713	516	3	9	100.00
87	Grand Total of same month last year	7,030	16,466	32,517	1,161	7,423	219	8	8	100111

	Ms	Mo.						Ra.	Δ.	P.
Unrecovered balance on the 1st of the month Amount of tollage for the month	140	***	000	***	***	447	en :	110 516	6	1
Amount credited in the accounts for the mon	hh -	005		obe	1	Cotal	401	626 537		
Balance at the end of the month	100	964	400	240	Ba	***	*40	88	12	1

#### Kendrapara Canal and its Branch to Gundakia on the Gobri River.

	an or summerhalism on a diff. Of some fragments of the contraction of				APPROXI	MATR	LORNYGR O	BOATS.	Ton-	Tollage.	Rate of
	Nature of cargo.			1	Weight of curgo.	Value of eargo.	Maunda.	Tons.	mileage.		toll per
		v 10000			LOCAL	TRAFFI	C.				
					(1)-1	RIVATE.					
				-	Mds.	Rs.		1		Rs. A. P.	A. P.
10	halk	, ,		111	260	200	465	17	27 ± 150	4 8 0 4 12 0	*****
1	oriander			100	150	750	30,476	1,091	36,096	12 5 0 302 5 <b>6</b>	20101
	inpry boats	, ,	***		(3 · · · ·	1.0-0	1, 163	15	620	36 0 0 11 11 0	*****
1	Iram		***	***	3,750	28,1mi 11,600	4, 583 4,155	150	3,110	128 10 0 116 7 0 291 1 <b>5</b>	100.00
3	discellaneous			***	5,070	26,000	9,527 1,592	57 180	13, 68 1,870 8,704	45 12 0 64 2 0	*****
1	dail bil-cake				1,560 2,970	1,560 5,710	2 0 0 0 3 - 5 1 10 3 0 0	1,171	6,512 41,000	168 9 0	41434
1 1	Passengera (3.763 in number)		*11.8		17,200	68,800 10,250	30,109	1.077	45,3%4	880 12 0 90 8 0	******
11 8	Salt				2,050 200 1,200	1,580	\$ 50 m	1 6 6 2	3,000	11 4 0 63 4 0	******
3 5	Ricerer		***		3.00 5,270	20	0.175	11	18,518	8 4 D 288 5 D	******
4 . 1	fil Furmerie		4.10		600 120	5,000 450	1,005	10	1,000	35 12 0 5 0 0	******
3	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		***	***	800 750	3,000	1.509	8.5 43	1.959 2,664	55 4 0 41 10 0	100141
-	Wheat	Tof			44,620	1,90,120	1,45,700	5,208	1,89,072	3,920 3 5	0 4
7	Total of same month has			***	30,100	1.01.131	160,663	3,451	1,23,082	2,890 13 2	0 4
-	MISCRILANEOUS.										
	13 Rafts of bamboos (52,280 in		her)	(+	111777	630		*****		0 6 9	*** 14
	Logs,		)	0.0	41777	5.0 5.59	*****	*****		0 6 0 189 9 7	
-	Timbers, (155 ),	To	tal			1,190		744-14		192 6 4	
-	Total of same month h	nst y	car			\$100		*****		397 4 9	
0	Boundary stone	000		4 1 4	200	3.000	561	20	400 966		0
2 1 60 2 72	Crane, &c. Empty bouts Gyles Laterite stone	***	***	**	600 22,000	3,000 3,000 300 400 500	561 648 23,450 1084 40,546 102	765 35		20 5 337 5 81 11 1,306 8	0
1 60 2 72 9	Craue, &c. Empty bouts Gyles Literite stone	***	101		800 22,000 100	3,000	018 23,430 988 40,546	23 765 35 1,451 6	966 52,078 1,479 61,278	20 5 337 5 81 11 1,306 8	0
1 00 2 72 79	Crane, &c. Empty bonts Gyles Laterite stone Stones, &c.	To	otal	**	800 22,000 100 23,200	3,000 300 400 500	018 23,430 988 40,546 102	23 765 35 1,45 6	966 32,078 1,479 61,278 252	20 5 337 5 31 11 1,306 8 4, 1	0 0 3
1 00 2 72 72 9	Crane, &c.  Kmpty boats Gyles Laterite stone Stones, &c.  Total of same mouth l	To last y	otal	**	800 22,000 100 23,200	3,000 300 400 500 4,220	618 23,450 5088 40,546 102 63,644	23 765 35 1,45 6	966 52,078 1,479 61,278 252 96,412	20 6 337 6 81 11 1,306 8 4, 1	0 0 8
1 00 2 72 79	Crane, &c. Empty bonts Gyles Laterite stone Stones, &c.  Total of same month l  Miscellanbous	To last y	otal		300 300 22,000 100 23,200 1,000	3,000 300 400 500 4,220	618 23,450 5088 40,546 102 63,644	23 765 35 1,45 6	966 52,078 1,479 61,278 252 96,412	20 6 337 6 81 11 1,306 8 4, 1	0 0 3
1 00 2 72 79	Crane, &c.  Kmpty boats Gyles Laterite stone Stones, &c.  Total of same mouth l  Miscrilaneous Gyles (% in number)	To last y	otal	**	800 600 22,400 100 23,200 1,000	\$,000 300 400 500 4,220 380	0.18 23,470 988 40,546 162 0.5,644 2,831	23 766 35 1,45 6 2,308	966 52,076 1,470 01,278 252 06,412 3,452	20 5 337 5 81 11 1,366 8 4 1 1,710 6 32 2	0 0 0 3
1 00 2 72 79 17	Crane, &c.  Kmpty bosts Gyles Laterite stone Stones, &c.  Total of same mouth l  MISCELLANEOUS Gyles (% in number) Bosts passed free*	To last y	otal		300 	\$,000 300 400 500 4,220 380	618 23,430 1884 40,448 102 64,644 2,881	23 765 35 1,451 2,308	986 \$2,078 1,479 61,278 252 96,412 3,452	29, 5 337, 5 31, 11 1,396, 8 4, 1 1,710, 6 32, 2 1,8	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
1 000 2 772 2 79 17	Crone, &c.  Kmpty bosts Gyles Laterite stone Stones, &c.  Total of same mouth l  Miscrillangors Givles (96 in number)	To last y	otal		300 	\$,000 300 400 500 4,220 380	618 23, 450 1884 40,448 102 64,644 2,881	23 765 35 1,45 1 6 2,308 102	\$2,076 \$2,076 1,470 61,278 252 96,442 3,452	20 5 337 5 81 11 1,366 8 4 1 1,710 6 32 2	0 0 3
1 000 2 772 2 79 17	Crane, &c.  Kmpty bosts Gyles Laterite stone Stones, &c.  Total of same mouth l  MISCELLANEOUS Gyles (% in number) Bosts passed free*	To last y	otal		300 600 22,000 100 23,200 1,000	\$,000 300 400 500 4,220 380	618 23, 450 1884 40,448 102 64,644 2,881	23 765 35 1,45 1 6 2,308 102	\$466 \$2,078 1,479 61,278 252 96,442 3,452	20 5 337 5 81 11 1,366 8 4 1 1,710 6 32 2	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
1 000 2 772 2 79 17 17	Crone, &c.  Kupty boats Gyles Laterite stone Stones, &c.  Total of same mouth l  MISCELLANEOUS Gyles (96 in number) Boats passed free*  Total of same month	To Tollast y	ootal	A 10	300 22,000 100 23,200 1,000 1,000	3,000 300 400 500 4,220 380 160 100 100 100 100 101 101,510	6188 23, 450 1888 40, 448 102 64, 644 2,881	23 765 35 1,45 1 6 2,308 102	\$966 \$2,078 1,470 61,278 252 96,442 3,452	20 5 337 5 81 11 1,366 8 4 1 1,710 6 32 2	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
1 00 2 772 779 177 4 4 4 668 497 183	Crane, &c.  Kmpty bosts Gyles Laterite stone Stones, &c.  Total of same mouth I  MISCELLANGOUS Gyles (% in number) Bosts passed free*  Total of same month  Private, including miscellang Government stores, including	To Tollast y	otal year  cellar	A 10	300 22,000 23,200 1,000 1,000 44,620 23,200	3,000 300 400 500 4,220 380 100 100 100 100 100 100 100 100 100 1	618 23,450 1888 40,456 162 64,644 2,881	23 765 35 1,451 2,308 102	\$466 \$2,078 1,479 61,278 252 96,442 \$452	20 5 337 5 81 11 1,366 8 4 1 1,710 6 32 2	0 0 0 8
1 00 2 2 78 78 17 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Crane, &c.  Kmpty bosts Gyles Laterite stone Stones, &c.  Total of same mouth I  MISCELLANGOUS Gyles (% in number) Bosts passed free*  Total of same month  Private, including miscellang Government stores, including	Tellast y	otal otal otal	A n	300 22,000 100 23,200 1,000 1,000 1,000 44,620 23,200 67,820	3,000 300 400 4,920 380 100 100 100 100 101 101 101 101 101 1	618 23,470 1884 40,446 102 64,644 2,851	23 765 35 1,151 2,308 102	\$3.078 \$2.078 \$1,479 61,278 252 \$6,442 \$4,452	29, 5 337, 5 31, 11 4,366, 8 4, 1 1,710, 6 32, 2 1,8 1,711, 18	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
1	Crane, &c.  Kmpty bosts Gyles Laterite stone Stones, &c.  Total of same mouth I  MISCELLANGOUS Gyles (% in number) Bosts passed free*  Total of same month  Private, including miscellang Government stores, including Gran	To last y	otal year otal year ,	A n	300 22,000 100 23,200 1,000 1,000 3 44,620 25,200 67,820 40,100	3,000 300 400 500 4,220 380 160 100 100 100 1,91,310 4,320 1,95,030 1,62,721 ual Looks, as	1,45,700 64,644 2,10,358 90,494	23 765 35 1,451 2,308 102 1	\$3.678 \$2.078 \$1,470 61,278 252 \$6,412 \$,452 \$1,80,072 \$1,80,072 \$1,462 \$2,85,514	27, 5 337, 5 31, 11 4, 366, 8 4, 1 1,710, 6 32, 2 1,8 1,711, 14 5,824, 7 3,320, 4 Kondrapara	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
1 000 2 2 772 2 779 177 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Crane, &c.  Kupty boats Gyles Laterite stone Stones, &c.  Total of same mouth l  Miscrillaneous Gyles (% in number) Boats passed free*  Total of same month  Private, including miscellane Government stores, including Grand Total of same month	To llast y	otal year cellal otal ; year	A m	300 22,000 100 23,200 1,000 1,000 44,020 23,200 67,820 40,100 66 Gobri Cast	3,000 300 400 500 4,220 380 100 100 100 100 100 1,91,810 4,320 1,95,680 1,62,721 ual Looks, as	1,45,700 64,644 2,10,358 90,494	23 765 35 1,151 6 2,308 102 102 1	1,80,072 9,642 2,85,614 1,278 06,412 3,452	27, 5 337 5 337 5 337 5 31 11 1,346 8 4 1 1,710 6 32 2  1 8 1 8 1 8 1 8 1 8 1 8  Kondrapara Ba. A. P. 8,296 2 8 5,824 7 9	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
1 000 2 2 772 2 779 177 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Crane, &c.  Total of same mouth I  MISCELLANEOUS Gyles (% in number) Boats passed free*  Total of same month  Private, including miscellane Government stores, including Grand Total of same month  Of this, Rs. 785-2-6 is the tot  Unrecovered balance Amount of tollage to	To deat y	ootal ootal ootal year otal illeut	A m	300 22,000 100 23,200 1,000 1,000 44,620 23,200 67,820 40,100 6 Gobri Carl	3,000 300 400 500 4,220 380 160 100 100 100 1,91,310 4,320 1,95,030 1,62,721 ual Looks, as Memo.	1,45,700 64,644 2,10,358 90,404 ad Rs. 5,039-	23 765 35 1,151 2,308 102 102 1. 5,203 2,308 7,611 3,553 5-3 is the c	1,80,072 9,642 2,85,614 1,278 06,412 3,452	27, 5 337 5 33 11 1,366 8 11 1,710 6 32 2  1 8 1 8 1 8 1 8 1 8  4,112 9 1,711 14 5,824 7 3,320 4  Kondrapara Ba. A. P. 8,206 2 8	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
1 000 2 2 772 2 779 177 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Crane, &c.  Empty boats Gyles Laterite stone Stones, &c.  Total of same mouth l  MISCELLANEOUS Gyles (96 in number) Boats passed free*  Total of same month  Private, including miscellane Government stores, including Gran Grand Total of same month	To least y	otal year otal year the 1	A manneous	300 22,000 100 23,200 1,000 1,000 44,620 23,200 67,820 40,100 6 Gobri Carl	3,000 300 400 300 400 380 4,220 380 160 100 100 100 1,01,310 4,320 1,05,630 1,62,721 ual Looks, as MEMO.	61.8 23, 430 1884 40, 448 102 64,644 2,881 2,881  2,881 2,881 2,881 2,881 2,881 2,881 2,881	23 765 35 1,151 2,308 102 2,308 102 1	1,80,072 2,85,514 1,26,534 01,278 06,412 3,452	25, 5 337 5 31 11 4,306 8 4,112 9 1,710 6 32 2  1 8  4,112 9 1,711 14 5,824 7 3,320 4  Kondrapara Bs. A. P. 8,206 2 8 5,824 7 9  4,630 10 5	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
1 000 2 2 772 2 779 177 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Crane, &c.  Total of same mouth I  MISCELLANGOUS  Gyles (% in number)  Boats passed free*  Total of same month  Total of same month  Private, including miscellane Government stores, including  Grand Total of same month  Of this, Re. 785-2-6 is the tot  Unrecovered balance Amount of tollage to	To least y To least y I least the e on the e of the e	otal year otal year the 1	A manneous	300 22,000 100 23,200 1,000 1,000 44,620 23,200 67,820 40,100 6 Gobri Carl	3,000 300 400 500 4,220 380 160 100 100 100 1,01,310 4,320 1,05,680 1,62,721 ual Looks, as Memo.	1,45,700 64,644 2,10,358 90,404 2,803	23 765 35 1,151 2,308 102 2,308 102 3,508 7,011 3,553 5-3 is the c	1,80,072 2,85,514 1,26,534 01,278 06,412 3,452	21, 5 327 5 33 11 1,366 8 11 1,710 6 32 2  1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
1 000 2 772 2 78 17 17 4 4 6 6 6 6 6 6 6 7 7 8 7 8 7 8 7 8 7 8 7 8	Crane, &c.  Total of same mouth l  MIRCELLANGOUS  Gyles (96 in number)  Boats passed free*  Total of same month  Private, including miscellang Government stores, including  Grand Total of same month  Of this, Rs. 785-2-6 is the tot  Unrecovered balance Amount credited in  Balance at the end of	To last y To last y I last y I last y I last y I last tal contact the a contact the contact the a contact the contact the a contact the contact the contact the a contact the a contact the contact the a contact th	otal reur otal reur otal reur the 1 the 1 the molester mo	A moneous interest of the contract of the cont	300 22,000 100 23,200 1,000 1,000 23,200 23,200 67,520 40,100 6 Gobri Canth	3,000 300 400 500 4,220 380 100 100 100 100 1,01,810 4,820 1,05,680 1,62,721 ual Looks, market	1,45,700 64,644 2,10,358 90,404 2,10,358 90,404 2,10,358 00,404 2,10,358	23 765 35 1,151 2,308 102 2,308 102 3,508 7,011 3,553 5-3 is the c	1,89,072 91,442 1,450 1,278 96,412 3,452 1,89,072 91,442 2,85,514 1,26,534 0llection of	27, 5 337 5 337 5 337 5 337 5 31 11 1,346 8 4 1 1,710 6 32 2  1 8 1 8 1 8 1 8 1 8  4,112 9 1,711 14 5,824 7 3,320 6  Kondrapara Bs. A. P. 8,206 2 8 5,824 7 9 14,680 10 6 7,271 13 5 11 6,758 10 6	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

#### High Level Canal, Range I. LENGTH OF CANAL OPEN-34 MILER.

		Approx	KTATE	TONNAGE O	т Водтв.	1		D 4
boats.	Nature of cargo.	Weight of enruo.	Value of	Maunds.	Tous.	Ton- mileage	Tollage.	Rate of toll pe- ton-mile
			TRAFF	ic.			Commence and the same and the same of	
	and the same of th	Mds.	Rs.		i		Rs. A. P.	A. P
3 9 84	Cotton	200 50	2,000	5 17 171 6,779	1 · ·	#114 1.1.1	8 8 0 5 12 9 71 3 0	
15 14 4 5	Gram Gingolly Jungery Miscellaneous	1,500 400 200	2,000 (),660 2,660 5,600	1,077 2,575 1,000 51.1	10.1	1. 02	624 13 (3 )	******
16 10 11 1	Pnddy Pnssengers (114 in number) Salt Salt fish	650 59 100	3, 150 3, 150 850 800	7.64 1.657 1.545 85	27 51 51	1, 700 1,700 102 272	9 12 0 27 11 9 35 10 0 2 0 0 7 12 6	*****
3	Timber Total	4,650	21,900	16.2.5	- ;	15,104	277 5 9	9 3:5
i d	Total of same month last year	4,340	13,510	17,641	6.01	17,Was	333 N 3	6 3
	Miscritaneous.							
	Total							
	Total of same month last year						0 4 0	414
In de	comparing with the corresponding ment crosse of traffic in items passengers and tur (2)—STORES A	diers,					Rs. 57, which	ts date
31	Empty benta		244 544	4.7%4	171	3 -17	11 6 0	44444
311	Plank Pan tilos	9,000 59 100	150 80 20	16,602 173 175	593 3 6	130 130 298	92 8 0 3 2 0 4 4 0	
Gy .	Total	0,150	200	21,094	117	\$ 214	103 6 0	0 4 5
64	Total of same month last year MISCELLANEOUS.	6,900	1,000	18,246	611.2	0.574	101 7 0	0 50
4	Bamboos (6,000 in number) llosts passed free*		50				5 0 0	1811.1
6:	Total of same month last year	100000		1	445		5 11 0	*****
0		orandum of f		attached.				
			STRACT.			1		
73	Private, including miscellaneous	4,030 9,150	21,500 250	16,235 21,444	519 773	17. 27.0	277 5 9 109 6 0	
21	Grand Total	13,200	22,080	37,5+29	1,351	19,589	386 11 9	*****
86	Grand Total of same mouth last year	11,140	14,510	85,897	1,281	21,264	435 3 8	*****
	Unrecovered balance on the Amount of tollage for the me		WEMO.	ves	Total	391 1 386 11		
	Amount credited in the accor		mth			380 7		
	•	Мвмо, от	FREE BOA			atagramiris	Tolingo	
nen,	PARTICULARS.  For boats passed for Government officials on		No. of bow	ts. Maundas 316		nago.	Rs. A. P.	
		Total	4	516	1	18	11 6 0	
		or Cana LOCAL	L OPEN-	$-12\frac{1}{2}$ MIL	.ES.			

Coconnits Emply boats Gingelly Mouns Salt Passongers (68	in number)	**** ****  *** ****  *** ***  *** ***  *** ***  *** ***	***	1,400 50 2,100	5,600 250 10,500	151 2,000 2,577 141 4,046 576	5 93 92 5 144 21	45 914 1,105 60 1,905 250	1 14 30 1 51 6	1 b 1 1 5 15 8 6	0 0 0 0 0	**************************************
		Total	***	3,600	16,450	10,100	360	3,471	100	ď	0	0 5
Total of	same month	last year		1,910	2,093	10,800	388	4,803	100	10	6	0 4
Bamboos (3,80) Tunbers (74 in Small dougans	number)	*** ***	050	******	48 250		100.00		3 34	6 11 0	9	
		Total	***	*****	290	434434	*****	*****	86	9	3	101.114
Potal of	same monti	last veer		111111	390			-11104	45	11	9	191711

0		APPROT	TIMATE	TONHAGE	OF BOATS.	Ton-		Rate of
boats.	Nature of cargo.	Weight of curgo.	Value of cargo.	Maunds.	Tons.	mileage.	Tollage.	toll per
	(2)—STORES A	ND MATER	IALS FOR	IRRIGATIO	on work	۵.		
	1	Mds.	Rs.				Bs. A. P.	Ra. A.
51 5 6 19 1	Empty boats Firewood Gravel Line stone Laterite stone Par tiles Rubble stone	0,000 100	100 20 130 100 30 30		896	4,163 096 431 204 4,752 84 697	64 8 6 18 2 0 25 15 0 16 14 0 135 15 0 2 3 0 35 0 0	******
98	Total	10,100	410	80,795	1,101	11.337	308 9 6	0 5 2
245	Total of same month last year	82,200	1,955	81,812	2,021	27,074	877 8 0	0 6'0
	Miscellankors.						0 9 0	
	Total		11.111				0 8 0	******
401	Total of same month last year	()	30				8 9 10	100001
		A1	BSTRACT.		-			
48 93	Private, including miscellaneous Government stores, including miscellaneous	3,600 10,100	18,740	10,100 30,795	260 1,101	3,431 11,337	140 8 8 309 2 6	****
141	Grand Total	13,700	17,150	40,895	1,461	14,768	440 10 D	*****
312	Grand Total of same month last year	84,110	4,470	92,681	3,809	35,777	1,009 2 7	******
	Unrecovered balance on the 1st of the Amount of tolince for the month		EMO.	480 201	*** ***	***	Rs. A. P. -805 0 8 449 10 9	
	Amount credited in the accounts for	the month	101 5-1	***	485 594	Total	4,254 11 0 634 6 0	
	Balance at the end of the mouti.	***	*** ***		***		370 5 O	

### High Level Canal, Range III. LENGTH OF CANAL OPEN—61 MILES. LOCAL TRAFFIC.

			(1)—	PRIVATE.									
1 8	Empty boat		*****	*****	110 576	21	28 147	0	10 10	0 7		*****	
9	Total	!	*****		686	26	175	G	4	7	-	0	7:4
13	Total of same month last year	441	160	510	1,583	57	391/	31	9	1		0	5.8
	MISCELLANAOUS.	1	!							-	-		
	Nil.			}									
	Total	01,					444111	1+12	D	-	-		maare
	Board of sums sumth last your	1							-			_	-

In comparing with the corresponding month of last year, the private trade shows a decrease of Rs. 6, which is due to the decrease of traffic in items jaggery, klussari, and paddy.

9 64	Private, including miscellaneous	A HS	TRACT.	686	96 647	175	6 6 7	\$0×000
	Private, including miscellaneous			686	25	175	6 6 7	
***	Total of same month last year		TRACT.		40+111	*****		
	Miscellanbous.							
86	Total of same month last year	8,350	1,380	22,36%	799	5,593	235 4 6	9 8
1 34 17 4 8	Bricks Empty boata Empty boata Kurkutcha Laterite stone Pirewood Total	4,000 3,000 3,500 C,650	60 20 150	5,850 6,983 1,831 8,143	212 249 65 112	63 1,494 1,743 (55 784 4,529	3 8 0 85 0 0 81 6 0 22 3 0 87 13 0	0 7

#### SOUTH-WESTERN CIRCLE.

#### Midnapore Canal.

#### LENGTH OF CANAL OPEN-58 MILES.

9	•		TONNAGE OF				Itate of
boats	Nature of cargo.	Weight of Value of cargo.	Maunds.	Tons.	Ton- nulence.	Tollage.	toll per ton-mile,

#### LOCAL TRAFFIC.

#### (1)-PRIVATE.

					1	Mds.	Rs.				Rq. A.	T <sup>p</sup>	A. 1
						5,830	1.015	0.025					74.
	Con!		0.00	4.4	***	5,050	3,540	9,675			100 0	To .	
	0.080		0.01	6.6.1		2 080	44.2	4.950			72 4	f)	
	Earthenware		484	0.04			185	3,125			15 m m	G	
	Sand "		8.00	101	201	1,850	40	125			12 1	G	
1 1	Lime		100	8.6.6	00+	296	277.2	265			0.7	G	
11	Timbers (48 in nur	m ber )	4.61	4.6 +	102	270	49	865			13 (1	-11	44 141
	Firewood	4 + 5	0.00	9.0 0	0.00			5.230			8 13	9	
5	Brnss	0.00	0.04	0.01	442	2,440	1,16,500		11,000		45 14	8	
	Copper		+++	111	111	5(8)		1,850			12	-(1	
5	Cutton	/ El-	111	+00	111	2,170	34,550	5,005		4.44	101 2	4.5	
1	Cotton piece-goods	(Estiro	THERT!			570	24,500	1,300			11 ~	(1)	
§ ]	Gunny (Indian, 70	o in nu	moor)	***	***	200	200	700			0.15	6.)	
1	dute "	111	A 0 F		0.01	50		175			0.16		
	Mats	9-8-4	2.0 >	102	- 1	200	1,000	450			5 7	4.5	
3	Paday	1.04	1.0	in x r	141	40,770	27,006	70,030		4 6 4 4 1	1.1" 9	1,	
3	Etter	9.0.0	* 8 *	0.0.4	111	38,440	\$5,678	71,465			700 . 2	11	
	Whent		10.1	+ 0.4		200	751072	625			1.7.4	47	
1	Gram		4.64			5,405	17,850	13,390			11111	()	
	Mustard seed		4.01		10.	2,400	10,800	6,800	100		4.1 0		
	Other oil-seed		+ + +	1.0 *	***	650	1,650	1,2::5			1 - 15		
, I	Indigo sued	9 111		0.0.4		2,050	18,550	3,800			17 15		
3	Other oils	1 011	141	7.04	0.01	(3693	4,700	2,250			27 10	10	
1	Proits	4 64 1		100	* 4	4,452	8,573	11,220			195 (	18	
	Vegetables		9.0.1	9.00	04.	100	150	907			3 ti	()	
П	Tobaccu		1.0 +		***	3,345	25,196	7,925			97 11	()	
	Spices					450	4.000	1,000			11 11	0	
	Coconnuts (11,000:	in nuin	(rbdr)	4.0.4	440	\$ (31)	210	1,860			1.1	f)	
П	Straw (94 kahana)	111	111	+ 0 +	44.	Seible	304	3,5110			Sec. 141	(1)	****
3	lietelnuts		221	444		250	1,400	859			9.11	-(1	
5	Sugar, unrefined		-44	0.01		3,010	12,955	6,550			4.7	G	
3	Salt		42.0	* * *		6.459	25,200	12,500			. 7.6 1.5	65	
3	Saggi		* + 1	0.44	***	859	550	1,495			144	+1	
1	Cattle (42 in numb	er)	***			200	630	400			2 (5	(1)	
0	Hides (10,680 in nu	mber)		191	100	9,475	24,800	4,8 0			0.2	17	
8	liorns		101	144	41600	300	6,000	7:15			9 5	+3	**
5	Empty boats		*11	4.5	44. 8	100.24	92222	63,650	100		A THE STATE OF	+5	
	Passenger boats		***	0.01		*****	101 11	62.285			1. 6. 3	F	
5	Retel leaves		9 4 4	4.0.1	***	1,317	7,115	3,1130			131 2		***
5	Gonts (296 in num)	ber)			201	61	5390	465			7 7	25	
7	Sal piles (323 in nu	mber)		***		550	5515	680			5 3	59	
7	Stone plates					680	1,500	1,175			11 5	6	
13	Cotton twist and y	arn (E	uropea	n)		5,580	1,901,969)	14,375			120 12	+5	
9	Do. piece-goods			***	0.01	240	26,750	1,260	411.5		14 7	13	
6	Curd	-		***		1,350	4,050	3,500	***		1.14	19	
300	Miscellaneous			431		2,680	5,277	6,310	111111	1	5; 9	9.0	
1	Other fibres, raw			***	***	150	750	360			2 10		
5	Bamboos (842 m n			091		250	109	250			2 4		
-	(010 000			Total		1,47,552	6.70,705	4.84.095	15,503	3,08,053	4,867 10		0 8
20	Manual of								-				
0	Total of san	me moi	190 180	year	181	1,38,610	7,54,741	4,38,073	15,615	2,34,459	3,802 6	0	11 2
	Млеон	LLAWN	ova.										
- 1	Passengers (12.570	in nur	nber)	441	031	******	040.057				211 10	3	
I	Demurrago, &c.	101		100	-981	******		* 1,44			3 0	()	775.
8	Boats passed iree	421				******	44.45	******					775.
_	broad are 11.00	611	001	0.64	***								
B				Total		100000	494407	244.1.			247 10	3	
-	_										-		
8	Total of same	e mon	th last	TOAL		*** **	415761		141 14		266 14	0	

#### (2)-STORES AND MATERIALS POR IRRIGATION WORKS

-	NII.				Nil.	i	1	-	
-	Total		*****	*****	*****				
	Total of same month last year	***	******	****	480141				
	MISCHULARBOUS. Nil.				Nil.	1			
_	Total	00+	*****	*****	117443				*****
	Total of same month last year	101		.,	111111		1.112		P11110

#### Midnapore Canal-concluded.

, OF		APPROX	PEATE	TOWNAME	P BOATS.			Rate of	
Donts.	Nature of cargo.	Weight of cargo.	Value of cargo.	Maunda.	Tons.	Tou- mileage.	Teliage.	toll per ton-uns.	
		Al	BETRACT.		3				
		Mds.	Ra,				Ra A. P.	A. P.	
3,039	Private, including miscellaneous Government stores, including miscellaneous	1,47,652	6,70,705	4,84,095	16,503	8,08,063	5,115 6 0	*****	
3,086	Grand Total	1,47,552	6,70,705	4,34,095	15,503	3,08,053	6,118 6 0	10000	
2.975	Grand Total of same month last year	1,38,810	7.54.741	4,38,075	15,645	2,34,439	4,069 4 0	0	
		h	Івио.			Ra. A. T			
	Unrecovered balance on the		onth	*** ***	### 491 ### ###	1,198 13 9 5,115 5 0	-0		
	Amount credited in the acc	ounts for the	month	Tot	tal	6,314 2 9 5.502 3 0			
	Balance at the end of the m	onth	494 644	111 101		611 15 P			

#### Hidgellee Tidal Canal.

## LENGTH OF CANAL OPEN—29 MILES. LOCAL TRAFFIC. (1)—PRIVATE.

		1	1		1				
1	Retelnut		20	120	70	400000	101016	0 12 6	
1	Betel leaves	***	10	20	50	269441	*****	0 5 6	417,141
8	Bamboos	10.	605	569	1.050	8.00. > 5.4	******	11 5 6	*****
2	Bress manufacture		8	320	70		11100	0 13 6	1 > 9 - 0 +
2	Reams		86	54	120	*****		0 13 0	111111
11	Coal		8.225	803	6.150	211111	*****	79 6 6	0.5 x = 0.4
2	Constant		45	62	160	******		2 14 8	4 * * * 4
9	Orthon mices woods (Formanas)		565	14,125	1,695	******	*****	17 7 3	****
8	Bootharman		265	151	1,620		*****	9 0 6	110140
832		221 22			67,215	000400	4 + 0 1 0 0		*** **
	Empty boats	44.	755	316	1.920	100.00		707 10 0	*****
8	Pirewood	***	600	2,400		******	*****	17 10 0	****
11	Gunny-bags	141			2,900		101111	22 12 0	11116
2	Gums	991	20	5	80	*****	*****	1 6 8	24444
12	Ghooting	200	2,210	576	4,100	******	4 - 1 - 2 - 2	28 3 0	Petros
4	Hides		90	2,950	750	* * 5 * * 4	711188	10 12 6	******
1	Hogla mat		26	100	125		010000	0 13 9	*****
2	Jute	0.11	220	380	810	401-11	10000	4 2 9	
2	Lime	***	260	200	425	*****	******	2 14 9	******
18	Miscellaneous		525	1,880	1,855	*****	******	15 11 6	*****
9	Mat	***	200	510	480	444444		3 10 0	22110
18	Oil		1,395	18,570	3,765	447144		28 9 0	889-11
1	dail makes		20	20	60			9 6 6	******
1	(24)		300	800	525	100.00	100101	8 9 9	0.02 - > 4
6	111 1		275	1,250	795		*****	5 7 3	00000
817	31 1 1 1	***	86,925	22,797	69, 435	44144	*90 *0*	934 9 0	* * * * * *
	Daniel Banks	0.04			4,466	****	******		*****
71	Passenger boats		84,295	56,250	1.04.150	100,00	******	47 0 0	0.04 + 1.4
448	Rice Just year	0=4	4,406	1.778		411440	201111	1,043 2 5	*****
87	Straw	***			11,465	027200	*****	79 6 9	*****
28	Salt	447	6,474	25,896	12,850		*** +00	176 13 6	0.05 + 6 +
2	Sand	***	880	200001	675	*****	*****	6 10 8	0.00.00
2	Sugar, unrefined	2.0	195	440	305	100.00	000111	1 8 6	400122
78	Tobacco	4.11	3,140	18,840	9,315	******	*****	103 9 0	000.00
1	Timber To'	240	40	100	125	212111	******	0 13 9	400000
26	Vegetable	***	800	1,846	1,960	141443	*****	16 13 3	*****
1.964	Total		1,17,953	1.71.600	3.11.235	11.110	1.00.000	P. 025 10 0	-
1,704		***	1,17,000	2,72,000	0,11,200	11,116	1,80,633	3,315 10 0	0 3'3
1,884	Total of same month last year	***	1,20,964	1,86,431	3,24,500	11,589	2,10,178	3,647 9 9	0 8:3
	Miscella neous.		٠						
***	Passengers (393 in number)	64.		000111		*****	*****	10 9 0	
	9 Rafts of timber	004	568	980	******	*****		14 15 3	,,,,,,,,
***	5 Ditto of hamboo	441	36	65	421+14			1 6 0	44,400
	Demurrage, &c	4	******			*****		16 4 0	
3	Boats passed free	***	777 - 01	******			111111		44100
-								*****	
3	Total	84+	604	1,025				43 2 3	.,,,,,
**.	Total of same month last year	800	*****	141741	******	*****	******	. 71 15 6	441.67

#### (2)-STORES AND MATERIALS FOR IRRIGATION WORKS.

tland cement		***	282 30	423 150	775 60	*****	*****	14 0 9 0 6 6	544239
	Total		319	573	835	80	826	16 7 3	4 01 - 1 *
Total of same m	onth last year		60,224	15,038	1,06,075	3,788	1,00,863	1,922 9 9°	.,,,,
MISCRILLAR	reove,								
Nil.			801000	801.034		******	*****	140000	
	Total	***	*****	40 1 5 6 7	*****		******		40,000
Total of same me	onth last year		11110	*****	141194	101111			14144
	Total of same m  MISCRILAN  Nil.	Total  Total of same month last year  MISCRILAFROUS, Nil.	Total Total of same month last year  MISCRILANGUS.  Nil.  Total	Total 312  Total of same month last year 60,224  MINCRELLAWROUS.  Nil.  Total	Total 312 573  Total of same month last year 60,226 15,038  MISCRELAMEOUS. Nil	Total 319 573 835  Total of same month last year 60,224 15,038 1,06,075  MISCRILLAFEOUS, Nil	Total 319 573 835 80  Total of same month last year 60,224 15,038 1,06,075 3,788  MISCRILLAFEOUS.  Nil.  Total	Total 312 573 835 80 826  Total of same month last year 60,224 15,038 1,06,075 3,788 1,09,863  MISCRLLABEOUS.  Nil.  Total of same month last year	Total 312 573 835 80 826 14 7 3  Total of same month last year 60,224 15,038 1,06,075 3,788 1,09,863 1,822 9 8°  MISCRELABEOUS.  Nil.  Total of same month last year

The tolls realized last year wese on account of the coal conveyed for the Ossasa Coast Causi works.

#### Hidgelles Tidal Canal-concluded.

Nature of cargo.	Weight of Value of Cargo.	Maunds. Tons.	Ton- mileage.	Tollage.	Rate of toll per ton-mile.
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#### ABSTRACT.

ading wiscellaneous	1,18,567	1,72,634	3,11,235	11,116	1,89,633	3,358 1		
		070	835	08	826	14	3 3 7 8	000.00
Grand Total	1,18,860	1,73,207	3,12,070	11,146	1,90,450	3,378	3 6	
al of same mouth last year	1,81,185	1,81,409	4,30,575	15,377	3,20,041	5,642	8 0	*****
	al of same mouth last year	al of same month last year 1,81,185		al of same month last year 1,81,183 1,81,409 4,30,675	al of same month last year 1,81,188 1,81,469 4,30,575 15,377	al of same month last year 1,81,188 1,61,409 4,30,575 15,377 3,20,041	al of same month last year 1,81,188 1,81,409 4,30,575 15,377 3,20,041 5,642	al of same month last year 1,81,188 1,81,469 4,30,575 15,377 3,20,041 5,642 8 0

Unrecovered balance on the 1st of t	he m	onth	***	0.04	***	m6 f	100	233	11	0
Amount of tollage for the month		***	* # #	**	9.6.5	4 = 4		3,373	3	6
									_	-
					T	otal		3,606	16	6
Amount credited in the accounts for	r the	month	100	***	***	100		2,920	8	0
									-	
Balance at the end of the month	P * *	***	***	4.0 *	100		*#*	680	6	6

#### SONE CIRCLE.

Eastern Main and Patna Canals.

LENGTE OF CANAL OPEN-861 MILES.

#### LOCAL TRAFFIC.

#### (1)-PRIYATE.

				T h last	otal	407	******	13,000			988444	773	-	-	*****
.,	Passengers (19 in Bamboos and b ber).	nui ulial	mber) lus (1,7			um-	*****	17,000	00000	*****		770		_	*****
	Mts	CBLI	ATEO	US.											
6	Total of a	am e	monti	last;	700.T	***	27,962	79,076	49,765	1,761	1,07,047	1,199	0	9	0 8
6				7	otai		22,671	64,497	48,770	1,984	1,01,108	931	15	0	0 1
2 2 4	Cooking utensils Large bamboos Miscellaneous Empty boats	001	***	***	***	PD: PAA 000	25 400 11,734	10 250 49,206	25 915 20,831 7,335	1 32 1,060 263	1,336 47,684 11,703	0 13 461 60	12 1	3909	*****
1	Clothing Building materia	ds	400	***	***	***	3,300 1,950	1,330 961	258 5,498 2,969	10 196 105	205 13.874 3,747	139 26	11 15	0 3	******
94 04	Linseed Other seeds Stimulants	***	400 400	100	***	* 6 ***	825 290	2,450	1,149	41	3,314 1,650	34 15	3	0	*****
9	Stalt Other food	000	***	901	***	***	270 8,547 280	1,040 6,650 840	6,179 429	17 220	1,381 14,982 1,270	14 151 13	1 13 4	9	****

#### (2)-STORES AND MATERIALS FOR BRIGATION WORKS.

	Building rubble Read rustal Ashlar Cost busine Sal planks Empty boats	004 000 004 004 004 004	000 000 000 000 000 000	+0.0 +1.4 +0.0 +0.0 +0.0 +0.0	010 011 000 000 000	007 007 007 007	1,025 250 230	490 925 3,000 520	6,668 9,916 812 1 418 508 325 3,764	236 354 61 20 12	5,841 29,479 1,863 1,679 731	51 10 150 12 0 6 11 2 16 2 7 10 14 4	6 6 6 6 6 6 6 6	***	
7				3	otal		13,655	3,530	23,411	673	38,984	252 1	0	0	12
3	Total of	ame	month	last	YOAT	44-	1,540	916	3,711	138	6,891	55 3	6	0	1.2
	Man	CBLI	ANBO	vo.			ì		ì						
	Steamers passes Cargo boat di	free	***	***	447	***	010++1	******	101001	*****	*****	******			• • • • •
5				1	otal				*****	*****	200 = 24	15 191			
				i last									-	_	

#### Eastern Main and Patna Canals-concluded.

0		APPROX	STAME	TONNAGE	OF BOATS.		1	Rate o
hoats.	Nature of ourgo.	Weight of cargo.	Value of cargo.	Maunds.	Tone.	Ton- milenge.	Tollage.	toll pe
		ΔE	STRACT.				-10	
		Mds.	Rs. "				Rs. A. P.	A. P.
174 62	Private, including miscellaneous	22,671 13,655	82,3 <b>97</b> 3,550	46,770 23,411	1,994 673	1,01,109	1/705 0 3 252 1 0	******
256	Grand Total	36,326	85,1947	70,181	2,657	1,40,602	, 1,057 1 8	*****
233	Grand Total of same month last year	20,402	92,092	83,476	1,894	1,13,938	1,858 0 6	400100
			lingo.	•				
			11 15 35 ()				Rs. A. P.	
	Unrecovered balance on the 1st of t Amount of tollage for the month	the month	111	P 6 7	+ 0 /	1	115 6 0 ,957 1 8	
		ar the mouth		924	Total		,072 1 3 ,950 15 6	-,
	Amount crodited in the accounts for	31 (110 1010)11(1)						

#### Western Main Canal.

DENGTH OF CANAL OPEN-22 MILES.

#### LOCAL TRAFFIC.

#### (1) - PRIVATE

1 5 10 11 1 1 2 22	Whent Jazery Linseed Masterd Rafters Brick Clods Stone Empty boat Toll charges from Arra	1 for	excess	woish	ht on	22 ma	unds	100 1,600 4,000 6,10 400 300 700	200 3,200 8,000 12,800 60 40	200 2,400 5,650 5,876 500 450 1,050 2,275	7 86 202 210 18 16 37 81	364 4,472 2,020 2,100 648 160 102 810	4 07 41 12 35 5 56 11 7 3 9 43 3 4 4 7 7 7 2 3	
57					3	Potal		11,200	23,890	18,400	657	11,586	140 12	0 2
25	Total	al of	ньпре	month	last	year		6,200	19,750	D,250	327	18,142	183 12	0 2
	-	Mis		arboi Gl.		Cotal	***	10000		.41505	******		*****	0 beeser
***	Tota	lof	annie i	month	last	YOUR				*****	*****		*****	*****

#### (2) -STORES AND MATERIALS FOR IRRIGATION WORKS.

40 R	ubble stone and Ashlar stone	•••	20,700	1,085	28,550	1,019	40,760	286 6 0	111544
49	Total		20,700	1,035	28,850	1,010	40,760	246 G 0	0 1
6	Total of same month last year Miscellaneous.		2,700	185	3,400	130	3,518	24 12 3	0 1:3
	Nil.	1	******		*****		*****	*****	******
5	Total	ee					*****	400.000	*****
000	Total of same month last year	***	211.021	800104	****	60111	*****	*** ***	******

				1					4
67 49	Private, including mixeellaneous Gevernment stores, including mixeellaneous	11,200 20,700	23,890 1,035	18,400 28,550	657 1,619	11,586 40,760		12 o	
106	Grand Total	81,000	24,925	46,950	1,670	59,296	427	8 0	*****
31	tirand Total of same mouth last year	8,900,	19,848	12,700	419	18,660	208	8 6	14011

м	EMG.					Ra.	٨.	P.
Unrecovered balance on the lat of the month	***	***	100	***	***	153 427		6
Amount credited in the accounts for the month	***	a p.e		Total	***	580 487		6 9
Halance at the end of the month	400	**************************************	1997	***	400	93	7	9

#### Arrah Canal.

#### LENGTH OF CANAL OPEN-65 MILES.

	A SECTION OF THE PROPERTY OF T							
10		, Арркох	IMATE	TONNAGE	P BOATS.			Ruse of
Number boats.	Nature of cargo.	Weight of eargo.	Value of eurgo.	Maunds.	Tons.	Ton- mileage.	Tollage.	toli per ton-mile.

#### LOCAL TRAFFIC.

#### (1)-PRIVATE.

								Mds.	Ra.				1¢s	. A.	P.	A. F
47	Rice .	***	***			***	***	16,327	52,654	23,327	433	61,746	407	4	3	
SR	Salt		***	4.44	++1	111	***	10,136	45,536	15,834	565	21,919 .		10	6	
77	Other sric	PB GI	food	144		111		17,416	22,892	22,916	74. g 14.	25,289	265	13	0 1	*****
8	Line					100		3,918	3,914	5,008	1 1 1	10,010	46	11	0	******
0	Stone							776	133	1,078	15%	2,850	64	3	0	******
10	Liment		***					4,754	14.262	5.754	203	15,376	福福	- 4	6	115100
G	Mustard		109			4 + 4		5,407	16.221	7,807	27%	19,594	97	14	0	******
35	Conl			191		4 7 1	100	1,280	640	1,739	61	2,5:20	13	4	9	
1	Wool		1.0.0		4 + 4			38	12	58	3	14%	1	8	0	*****
2	Fiece-woods			4.4.0		* 4 4		(51)	3,(4(H)	160	3 5 5	168	1	1.5	3	******
1	Grass					499		57	100	157		230	3	- 4	6	****
(1)	Empty					***	1			6,285	188	4,938	20	0	0	11111
1	Passengera		14.1		***	- + +		*****	*** **	473	16	441	3	15	9	1020
ni i						Total	**1	54,167	1,34,308	89,685	3,196	1,68,948	1,049	9	ß	0 1
3	Tota	1 01 1	12110	month	last	vear		29.438	65,265	55,663	1,982	72,807	733	3 ()	0	0 1
										-				_	-	V 1
							į	}								
									1							
		MIE	SCELL	OSEL	78.										1	
	Rafts of he	andio	OS BU	id bull	alıs	(196,87	5 in				İ				i	
	number)		100	117			***	*****		******	111.00		182	4	9	
1000				•										-		
						Total	100				11.111		152	4	<b>()</b>	PP6 +4 0
				nonth	1 .		***						242	3	0	

#### (2)-STORES AND MATERIALS FOR IRRIGATION WORKS.

-			-										
1	Tron Stones Empty	***	***		*** ***	***	332 505	780 102	492 805 607	17 31 18	986 1,540 904	10 6 3 7 10 3 4 13 0	4 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
7					Total		927	882	1.884	66	8, 130	22 15 6	0 1.1
14		Total of	same r	month	last year		1,101	611	2,895	96	3,925	30 9 3	0
		M:	BCELL	ANEGU	8.								
			Nil	l.		1_						11111	
***					Total		*** **						*****
-		Total of		month	last year	***!	*****	*****			14		******

7	Private, including suscellaneous	54,167 927	1,34,309 882	89,685 1,884	3,196 66	1,68,948 3, lo0	1.471 14	3 6	*****
13	Grand Total	63,094	1,35,190	91,569	3,262	1,72,378	1,494 18	9	
69	Grand Total of same month last year	30,539	65,879	58,498	2,078	76,782	1,005 13	0	. 00 00
			Memo.			1	BB. A. F.		
	Unrecovered balance on the let of the	month	140 120	101	984	40.0	78 6 9		
			****	101	989		78 6 9 84 13 9		
			689 699			1,1	100		
		44.			989	1,1	194 13 9		

#### Buxar Canal.

#### LENGTH OF CANAL OPEN-433 MILES.

0		Approx	IMATE	TONEAGE OF	BOATS.	Ton-		Rate of
frimba bonts.	Nature of cargo.	Weight of cargo.	Value of eurgo.	Maunds.	Tona.	mileage.	Tollage.	ton par ton-mile.

#### LOCAL TRAFFIC.

#### (1)-PRIVATE.

							Mds.	Ru.				Ra.	A.	$\mathbb{P}_{+}$	4. P.
100	Jaggery Rice Postoes Inddy Boxes of shoes Centering and Horns, &c Kunkur Stone mills Lime Wood Passenger	sereens	***	***	***	000 000 000 000 000 000 000 000	\$0.570 227, 109 809 25 250 50 1.100 1.243 74 1.242	48, 475 170 100 100 200 100 76 1,650 800 18 480	\$0.625 \$25 160 275 160 260 25 1.025 1.425 50 1.105	1,092 11 5 8 3 7 1 36 61 2	40,780 550 180 128 108 112 87 720 816 100 2,262	424 6 2 1 1 1 1 0 4 18 1 1 25	15 1 1 4 6 8 5 2 3 15 11	8 6 0 8 0 0 6 6 8 3 3 8 6	404000
190	Empty boats		***				413444		8,275	203	9,600	53	2	0	*****
240				T	otal		35,701	\$2,093	43,655	1,550	55,537	537	3	6	0 17
28	Total of	same n	onth	last	year		4,778	6,160	7,225	258	9,695	94	2	0	0 1.6
	Mı	SCELLA	MBOU	78.										j	
194	Rafts { Bamb	ha	***	**		1,825	}		40000	*****		- 120		6	1661+1
	Excess toll real	ized for	MIOI	ng cal	culati	) (PC	411.11	******		4,		3	7	0	
				I	otal		1.111			10.11		123	11	6	*****
_	Total of	mm 200 m 30	anth	lest :	1100 12		1,,,,,	2"5	******	*****	101747	0	9	9	

#### (2) STORES AND MATERIALS POR IRRIGATION WORKS.

1 6	1 Iron au 0 Coal 8 Empty	d rope, &c.	**** *** ***	030 *** 030 005 011 011 012	4+1	4,735 354 1,896	9,470 708 948	5,720 275 2,675 9,650	203 10 95 342	7,014 580 1,800 14,705	88 10 0 7 10 6 14 2 3 81 1 6	40 220
8	6			Total	• • • • • •	6,995	11,126	18,320	630	24,009	141 8 3	0 '1
1	1 7	Total of same	e mont	h last year	***		*****	1,375	40	1,844	0 18 8	0 10
		Miscri	LANE	va.			1					
7			Nil.			241.77		*****	*****	****	*****	100224
887				Total	000	*****	441411	*****	*****			
041		otal of same	month	last year			441171	*****	*****			

246	Private, including miscellaneous Government stores, including miscellaneous	ous	88,701 0,985	52,693 11,126	43,655 18,325	1,55 <b>\$</b> 650	55,537 24,000	660 15 0 141 8 8	******
326	Grand Total	400	42,686	63,819	61,980	2,202	79,636	802 7 8	
89	Grand Total of same month last year	***	4,775	5,435	8,600	305	11,529	104 9 0	191991

				<b>A</b>					
Man	10.			200		Rs.	Δ.	P.	
Unrecovered balance on the 1st of the mouth		005		***	000	40	í	6	
Amount of tollage for the month	***	005	100	894	000	802	7	8	
						-	-	-	
				Total	401	842	12	9	
Amount credited in the accounts for the month	***	401	***	***		779	10	8	
						-		ling-op-	
Balance at the end of the month	***	000	-	490	000	63	2	6	
								-	

#### ABSTRACT.

60°	THAPPIC	, 1881-83.	TRAPPIC, 1880-81.	
Max. Johnson	During the month.	To end of the month.	During the corresponding month.	REMARKS
ORISSA CIRCLE.	Ra. A. P.	Ru. A. P.	Rs. A. P. Rs. A. P.	
aldunds (ondeaps: a ligh Level Canal, Range I. Do. do. It. Do. do. J.H.	516 3 2 5,824 7 0 386 11 0 449 10 9 185 2 7	2,050 8 7 33,741 10 11 2,772 2 9 6,371 2 6 1,221 4 1	219 5 5 2.717 4 4 1 3.320 4 8 24,003 4 0 435 3 3 3.110 3 0 1 1,020 2 7 3.875 9 4 1 244 13 7 755 1 11	
Total Orinna Circle	7, 62 4 0	47,006 12 10	5,218 13 6 35,149 7 0	
COUTH-WESTERN CHICLE.				
fidnapore	5,115 5 0 5,373 3 6	87,999 3 0 39,597 7 6	4,069 4 9 70 1 1 0 5,642 3 0 4-176 14 6	
Total Bouth-Western Circle	8,489 8 6	1,27,586 10 6	9,711 7 0 1,17,15-15 0	
NONE CIRCLE				
Instern Main and Parna	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	27.405 6 4 3,622 5 0 14.166 14 3 3,566 1 10	1,958 0 3 25 5-2 7 3 208 8 6 23 1 1 5 0 1,005 13 0 7 3 7 5 104 9 0 254 6 6	
Total Sone Circle	4,681 8 3	48.760 11 5	3,177 8 0 35,179 3 5	
GRAND TOTAL	20,532 -4 9	2,23,444 2 9	18,137 12 6 1,55,475 10 11	

#### GOVERNMENT TRANSPORT SERVICE.

	1		T	RAF	FI	C. 1881-	82.						T	BAI	PPI	3, 1880	-91.			
,	D	ring t	ne mo	nth.		Too	nd of	the mo	nth	v	Durit	ing the	corres		nd.	To	end of outding	the co	rre-	
	Passengers,	Goods.		Total receipts.		Passengers,	Goods.	200	100		Passengurs	Goods.		Total receipts.	_	Passenters.	Goods.	Profes I werestift has	Authorities and a second	
ORISSA CIRCLE.	No.	Mds.	Rs.	A. E	D	No.	Mds.	Rs.	A. 1	P. ?	No.	Mds.	Rs	. A.	P.	No.	Mds.	Rn.	Α.	N
Taldunda and Rundrapara	2,600 176	286	3,319		3	13,007		26,700 1146	1		14:1 151	778 140	1,154 83		1n 4	10,240		21,702		
* Total Orissa Circle South-Western Circle.	2,776	266	3,472	15	3	15,149	2,351	27,646	11	1	593	927	1,047	4	2	12,368	6,101	25,819	7	
Midnapore	6,663	353	2,422	0	0	43,139	5,350	10,612	0	0	776	156	479	0	0	22,380	3,601	11,089	6	!
Total South-Western Circle Sonn Circum.	0,663	353	2,422	0	0	43,139	5,350	19,612	0	0	776	156	479	0	0	22,380	3,601	11,089	6	1
Castern Main and Patna Vestern Main and Buxar	843 1,047 1,961	2,762 2,380 1,239	811 629 1,341	0 8 0	60 to 0.	11,664	43,813	9,772 8,520 16,730	12	6	900	1,384				10,285				1
Total Sone Circle		6,410	12,788	2	G	47,192	90,474	35,023	9	Ð	2,505	2,174	1,752	14		21,667				-
GRAND TOTAL	13,200	7,020	8,677	1	9	105,780	98,178	82,282	4	10	3,874	3,257	3,479	9	3	59,434	14,400	55, 472	0	1

#### TOTAL NAVIGATION RECEIPTS.

		2	)			EA	RN	I M GI	1881-82.		EAR	NINGS	1880-81.			
					During the month.			To end		During correspon month	ding	To end correspo	ndi		REMARES.	
						Re.	Δ.	P.	Re.	4. P.	Ra.	A. P.	Rs.	Α,	P.	
riaca lidnapore lidgellee one	Canale	***	00 0 00 0 00 0 00 0	***	654	10,838 7,587 3,873 7,463	3 5 3 10	3 0 6 9	74,743 1,07,601 39,597 83,784	7 11 3 0 7 6 5 2	6, 104 4,548 5,642 4,030	1 8 4 9 3 0 6 6	61,267 51,071 40,276 64,034	7	8 9 6 8	11
		GEA	ED To	TAL	9.00	29,209	6	6	3,05,726	7 7	21,616	15 8	2,43,550	11	2	

· CALCUTTA.
The 17th April 1882.

G. F. E. S. Neill, Major, M.s.c.,

Aust. Secy. to the Government of Bengal,

P. W. Dept.

#### Calcutta and South-Eastern State Railway.

Statemen' showing Increases and Decreases in maundage of Staples carried over the line during the manth of March 1882, as compared with the corresponding period of March 1881.

3		BTAP					188	1,	168	в.	1881.	1888.	Toronno	6
100		BLAF!	LED.				Up.	Down.	Ue.	Down.	Total.	Total.	Increase.	Decruase
4 3							Mds.	35 da	Bide.	Mds.	Mds.	Mdn.	Mda.	Mids.
building mate	rials	241					*****	1,214	*****	17.412	1,214	17.412	16,198	921.000
lailway mate	rinls		0.97		+ + -	*** ,	*****	6,813	201141	14.286	6,913	14,286	5,473	******
loal	400	0.01	* + +	9.94		***	441111	4,6896	******	12,268	4,(194)	12,248	. 8,189	100000
tevenue store	1.04		1.1.4	482	0.4.4	0.01		1,365	******	1,641	1,865	1,661	276	
poomate	0.6 +	4.6.4		4.4.1		4.44	47,426		51,980	040744	67,626	<b>B1</b> ,930	6,504	1000001
lay	0.01		0.4.1		0.4	1975	8.700	*****	8,682	04000	8,700	8,662	***** A	2
TW.W	191	249	8.9.1	9.00	* * *	9991	2,580		3,468	*****	2,580	3,468	898	44
l'oolloo	4 6 1	0.01		4 - 1		0.61	Z , \$19663 1	*****	6,778	44****	5,980	6.773	798	200
100	+0.	4.41		4 * *	4 * *		20,400		111, 1119	*** **	21,5111	80,777	50,977	867
uddy	***	+ 0.1	4.4	9.4	W. h.	***	3.385		P . D . 2	17.11	3.353	7.012	3,427	******
undries.	P.R. c	4.0 -	4.5.1	4.4	**	k 4 +	*****	12, E1()	2,047	7,330	2,410	9,383	6,913	91111
				Tot	al	9.31	98,171	17,80%	1,60,669	52,923	1,16,069	2,13,590	97,401	1

INCREASE.	Mds. 9
	8 100
Building materials 1 This increase is due to the materials carried for the Sonapur-Mugra Extension.	U,180
	5,478
Coal  This increase is due to the coal being required partly for brick-burning for the Sonapur-Mugra Extension	8,153
and for Rice-mills at Canning.  Firewood  This increase is due to wood wagons being employed to carry firewood only and not any other materials.	4,504
Straw	588
This increase in straw is due to greater demand in the selling station.  Woolloo	798
This increase in woolloo is due to greater demand in the selling station.	50,977
This increase in rice is due to the working of Rice-mills at Canning on an extensive scale.	3.627
This increase in paddy is due to the better crop.	6,937
This increase in sundries is due to greater demand at Canning for the working of Rice-mills and for Sonapur-Mugra Extension.	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1

Calcutta, the 17th April 1882.

R. G. MOOKERJEE, Manager.

#### Nalhati State Railway.

Statement showing Increases and Decreases in maundage of Staples carried over the line during the month of March 1882 as compared with the corresponding period of March 1881.

	IAPL	HE.			184	81.	181	32.	1881.	1882.		Decrease
Glatuss.		Up.	Down.	Up.	Down.	Total.	Total.	Increase.	1700 FORING.			
Silk and silk-clother Edible grain Brass and bell-meta Sugar and jagree Pucchiguods Cestion Beeds of all morts Cost sundress as It kevenue stores			404 404 404 404 600 600		 Mds.  187 270 815 1,345 907 9,589 4,693 6,620	Mds. 592 2.733 101	M ds.  568 189 433 1,161 449 3,580 4,129 3,680 509	Mde. 682 8.774 146 26 1,347	M du. 692 2,870 871 315 1,545 967 9,580 4,590 7,350	Mde. 682 6,342 335 433 1,161 459 3,556 4,320 4,743 3,380 820	1478 117 127 3,880 820	Mda. 184 618 6,033 261 2,607
			7	otal	 23,743	4,247	17,943	6,286	27,989	24,220	5,879	0,63

					1		- 1	
	I	CREASE.					Mds.	
Edible grain For want of sufficient water in the river	Bhagiruttee t		in is sent by		100	***	1,472	1
Sult The increase is due to the above cause.	***	•••	***	***	0.00	***	3,390	0
Revenue stores Previously all Revenue stores used to be	carried free, by	at now char	ge is made	for them.	***	000	820	
•	D	BCRRASE.						
Cotton The previous stock not yet exhausted.	1 * *	0 0 Q		***		400	518	
For want of sufficient water in the river are situated on the river some miles be thence they are going by Sainthea stati	low Azimgung	e, cannot be	e carried by	nnugger and boats this	l Soorjapur, yeur us befo	which ore, and	€,033	*
Sundries  List year Executive Engineer, Berhampo and hence the decrease.	***	***	44	it this year	no bricks b	rought	2,607	
and nemes and accrease.					2		po-	

Calcutta, the 17th April 1882.

R. G. MOOKERJEB, Manager.

#### Weekly Return of Traffic Receipts on Indian Railways

#### EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 8th April 1882, on 1,506? miles open.

	COACHI	E TRAPPIC.	MERCHAUDINE TRAI	AND MINERAL	Others		TRAFFIC	TRANS-HIL	10 B(R
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.	Other earnings (estimated).	Total carnings.	Coaching.	Marchany ding.	Total.
Intal traffic for the week or per mile of railway Per previous 18 weeks of half-	173,796	Rs. A. P. 2,66,831 9 0. 176 12 2	Mds. a. 21,86,064 20	Rs. A. P. 6,51,761 8 9 432 9 0	Rs. A. P. 19,091 15 0 13 1 1	Rs. A. P. 9,37,784 15 9 622 6 3	53,802}	118,011}	171,378
Year	2,734,944)	44,12,340 12 9		91,27,032 5 3	2,59,474 7 10	1,37,98,817 9 10	720,7093	1,599,092	0.819,8300
Total for 14 weeks	2,908,7304	46,78,672 5 9	3.24,87,694 20	97,78,793 16 0	2,79,166 5 10	1,47,38,652 9 7	780,181	1,710,048}	2,190,201
of previous vene- of previous vene- per mile of railway correspond-	170,685	2,27,367 5 7	19,31,886 20	5,91,888 9 6	14,482 4 8	8,38,683 3 9	50,877	107,325	158,200
me week of previous year	400107	151 2 5		393 7 1	9 10 0	554 3 6	*****	-	
p-avious year	2,371,283	36,58,831 9 0	2,81,70,439 10	89,93,023 13 6	2,53,480 5 11	1,20,05,395 12 5	712,756	1.67£663	2,287,

#### EASTERN BENGAL RAILWAY.

Approximate Return of Traffic for week ended 8th April 1882, on 1711 miles open.

20.5°	COACHIN	G TRAFFI	IC.		MERCHANDIS TR		AND MI	N 161	LAL	Other en			Total e	n leto	11100	TOTAL	TRAIN-MILE	S BUN.
YELD !!	Number of passengers.	Couch			Whight carried	el.	Recei	pts		(estima	ted)	•	2 Ottal Co	10. 17	1116,00,	Coaching.	Merchan- disc.	Total.
Istal traffic for the week	42,529 248	Ra. 38,651 225	0	0	Mds. s. 2,25,632 0 1,813 0	1	Ra. 36,118 210		P 0 9	Rs. 1,792 10	A. 1 0 6 1	()	Rs. 76,581 445	A. 11 12	0	6,009}	6,765	12,774}
For previous 13 weeks of half-	620,0994	4,18,265	0	0	33,38,412 0		6,77,933	0	0	7,470	0	()	10,02,968	0	0	77,5853	02,965	170,550}
Total for 14 weaks	662,6283	4,56,916	0	()	35,64,041 0	)	6,13,351	()	0	9,262	0	0	10,79,529	0	0	83,595	89,780	183,325
COMPARISON.																		
out for corresponding week of provious year	89,8241	* 27,585	0	0	2,28,760 0	)	33,502	0	0	3,321	0	0 !	64,408	0	0	5,8361	6,873}	12,700
mg week of previous year !	227	15G	15	3	1,301 25		190	9	11	18	14 -	6	366	7	6	199458	*****	*****
stel to corresponding date of previous year	643,721	4,48,880	0	0	20,53,516 0		5,26,156	0	0	9,531	0 (	0	9,84,576	0	0	62,638}	91,6471	174,186

Includes Rs. 100 on account of Revenue stores.

#### BENGAL PROVINCIAL RAILWAYS.

Weekly Statement of Traffic Receipts.

No. 10.

Labora Street	-		RENCEIPTS FO	DE WESK ENDING		PTS FROM 1ST UARY	M-A-A in annual	Tomi	Percentage
Jacest Wengm	Name of Railway.	Length open.	12th March 1881.	11th March 1882.	To 12th March 1881.	To 11th March 1882.	Total increase	decrease m 1852	
1882.	Northern Bengal Turhoot Patna-Gya Calcuta and South- Eastern	67 28	Ra. A. P. 32.794 0 0 0 10,689 0 0 12.189 0 0	11,405 0 0 3,461 0 0	Rs. A. F. 3,35,642 0 0 1,11,239 0 0 90,750 0 0	Rs A. P. 3,80,288 U U 1,33,447 U U 1,23,498 U U 1,23,498 U U 1,24,498 U U 14,498 U 0 U	Rs. A. P. 55,591 0 0 32,179 0 0 32,789 0 0 4,338 0 0	Re.	+16 +19 +36 +13
ditto	Naihati Total	4301	1,578 0 0 60,194 0 0	1,238 0 0 63,917 0 0	13,937 0 0 5,83,274 0 0	0,96,670 0 0	1,13,405 0 0	*****	+19

#### DARJEELING HIMALAYAN BAILWAY COMPANY, LIMITED.

Weekly Statement of Traffic Receipts.

								-
The infest resurn		RECEIPTS FOR		TOTAL RECEIPTS P	ROM 1ST JANUARY	Total increase	Total decrease	Percentage
	open.	12th March 1881.	11th March 1882.	To 12th March 1881.	To 11th March 1882.	in 1882.	in 1862.	of increase or decrease.
th April 1803	50	Rs. A. P. 8,511 11 6°	Rs. A. P. 6,408 8 3	Ra. A P. 20,413 7 11°	Rn. 4. P. 53,455 6 1	Ra. A. F. 27,061 12 2	4 50 × GD	+17 (proper-

Calcutta, 18th April 1882.

· Length open 30 miles.

GILLANDRES, ARBUTHNOT & Co., Secretaries.



#### SUPPLEMENT TO

# The Calcutta Gazette.

WEDNESDAY, APRIL 26, 1882.

#### OFFICIAL PAPERS.

Non-Subscribers to the Gazette may receive the Supplement separately on payment of Siz Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.

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#### NAGPORE RAILWAY SURVEYS.

THE following information regarding the surveys for a proposed line of Railway to connect the East Indian Railway with the Great Indian Peninsular through Chota Nagpore is published for general information.

H. C. LEVINGE,

Secy. to the Govt. of Bengal, P. W. Dept.

Memorandum on proposed Railway to connect the East Indian Railway with the Nagpur-Chatlisgurh Railway at Belaspur.

• THE routes suggested for this line of Railway have been examined this season—

I.—From Burrakur through Ranchi, Jushpur State, Surgoojah State, known as the "northern route," and recommended by the Commissioner of Chota Nagpur, Mr. J. F. K. Hewitt, c.s.

II.—From Burrakur vid Purulia, Singbhoom, Gangpur, and the northern part of Sambulpur district. This is recommended by Mr. V. Ball of the Geological Survey and others, and is known as the "southern route."

III.—An "intermediate route" proposed by the Chief Commissioner of the Central Provinces, Mr. J. Morris, c.s., which connects the portion of the northern route from Burrakur to Ranchi with that of the southern route from Raighur to Belaspur by a line from Ranchi vid Basia and Suadi.

The relative cost of the three lines is roughly estimated as follows: :-

				- Andrews - Andr
,		Northers line, . 893 miles.	Intermediate, 375 miles.	Southern, 866 miles.
		Rs.	Ra.	Rs.
+Preliminary expenses at Rs. 1,500 per mile		5,89 500	5 6?,500	5,49,000
+Land at Rs. 500 per mile		1,96,500	1,87.500	1,×3,000
Construction as per details		97. 43,674	1,03,60,905	1,76,21,242
+Fencing at Rs 750 per mile		2,94,750	2 71,250	2,74,500
Ballast at Rs. 2 500 per mile		9,82,500	9,37,500	9,15,000
Permanent-way Rs. 20,500		80,56,500	76.87 500	75,03,000
†Stations and quarters at Rs. 2,000		7,86,000	7,50,000	7,32,000
†Piant	•••	5,00,000	5,00,000	5,00,000
		2.11,49,424	2,12 57,155	2,22,77,742
Establishment and contingencies		21.14.942	21,25,715	29 27,774
†Rolling-stock at Rs. 7,000		27,51,000	26,25,000	25,62,000
,		2,60,15,366	2,60,07,870	2,70,67,546
Or per mile		66,197	69,354	74,000

The cost of items per mile are the same for each line, excepting for "construction of line," i.e. cost of earthwork and bridging, which has been calculated on notes of the country traversed.

The northern route, leaving Burrakur on the East Indian Railway, traverses the northern part of district Manbhoom through the middle of the Jhoria ceal-field, ascends the Chota Nagpur plateau some six miles south of Gola in the Hazareebagh district. Passing close

<sup>\*</sup> The estimate as revised in the Chief Engineer's Office is as follows:-

	ITEMS.	Northern line, 393 miles.	Intermediate line, 375 miles.	Southern line, 366 miles.	Remarks.
		Rs.	Rs.	Rs.	
1.	Preliminary expenses, at Rs. 1,500 per mile.	5,89,500	5,62,500	5,49,000	
2.	Construction as per details	96,70,773	1,01,83,413	1,07,30.916	
8.	Level-crossings, at Rs. 200 per mile	78,600	75,000	73.200	
(a) 4.	Fencing, at Rs. 1,000 per mile	3,93,000	3,75,000	3,66,000	(a) Both sides of line.
(b) 5.	Ballast ,, 3,300 ,,	12,96,900	12,37,500	12,07,800	(b) Includes 10 per cent for sidings.
(c) 6.	Permanent-way, at Rs. 21,370 per mile.	83,98,292	80,13,637	78,21,310	(c) Ditto ditto.
7.	Stations and quarters, at Rs. 2,125 per mile.	8,35,125	7,96,875	7,77,750	
8.	Plant	6,00,000	6,00,000	6,00,000	401
9.	Rolling stock, at Rs. 10,000 per mile.	39,30,000	37,50,000	36,60,000	
10.	Establishment, at 10 per cent. on items I to 7, inclusive.	<b>21,2</b> 6,219	21,24,392	21,52,597	
11.	Contingencies, at 5 per cent. on all except establishment.	12,89,609	12,79,696	12,89,298	1897 CA SUSSING
	Grand Total	2,92,08,018	2,89,98,013	2,92,27,871	
		Per mile.	Per mile.	Per mile.	
		74,321	77,328	79,858	
	does not, include land, which, at 1,100 per mile, will amount to.	4,32,300	4,12,500	4,02,600	

to the station of Ranchi, it runs through the northern part of Loharduga district into the Jushpur territory a few miles east of Jushpurnuggur, crossing the Eib and Mand, passing routh of Lukhunpur, Surgoojah, from there runs to south-west and south vid Uchlanga. Katghora to Belaspur.

From B. rrakur river, over which a bridge of 1,800 running feet water-

Although rock creps up at the foot of the river bank, I am informed by men who worked at the Grand Trunk Road bridge that the piers were built on wells sunk 60 feet below the bed, one pier only being founded on rock at a depth of 40 feet below the bed.

way is required, to the Damooda,\* 29th mile, the line would pass through a country with rather high ridges and deep depressions, crossing the Knoodya nullah and smaller streams.

There are many large and prosperous villages along the route: cultivation is principally rice.

Jhoria, at the 25th mile, is a large village of some 2,000 inhabitants; the exports from here are lac, oilseeds, rice, and a small quantity of silk, the imports being piece-goods and salt. Coal is to be found in most of the deep nullahs near this village, but owing to its distance from Burrakur it has not been worked.

The Damooda river requires 1,000 running feet of waterway, and the stream runs about 100 feet below the general level of the country necessitating a high bridge, and it is probable that well foundations will be required, though sandstone rock crops out at the foot of the river bank as at Burrakur.

From the Damooda river, which should be crossed between Tulgureea and Mahal, the line would run nearly on the watershed, till it crosses the Gogra river north of Chasnunda, a considerable village with a bazaar and some 500 houses. The produce from Purulia would probably be obtained here. Crossing the Gogra river at mile 44th, requiring a bridge of 160 feet waterway, the line runs along a ridge forming the minor watershed of the Gogra and Damooda. From this ridge numerous ravines run to each stream, and the slope of the country being rapid, they are very deep at a short distance from either side of the ridge.

From the 41 h mile the line runs through a very undulating country to Gola, a large village in the Hazaribagh district, at 75th mile, at which place the produce from the towns and villages of the Damooda valley would probably come to the Railway; also from Jhulda, the principal trading town in western Manbhoom.

Four miles from Gola the ascent of the northern slope of the Chota Nagpur plateau commences. A gradient of 1 in 100 is obtainable, but necessitates a tunnel, and perhaps curves of 4 mile radius. The ridge of the plateau is nearly straight for a few miles. On the north side are low parallel spurs with valleys running parallel to the ridge connected with it by narrow necks, and at the distance south of a mile-and-a-half the Suburnarekha river runs through a gorge also parallel to the crest of the ridge. The most expensive portion of the ascent will be about six miles in length, involving the construction of a tunnel in gneiss rock, and some heavy cuttings and embankments with long culverts. The total rise on this gradient will be about 650 feet, requiring some 13 miles of ascent, but two-and-a-half miles at the commencement of the ascent, and four-and-a-half miles at the top, would be ordinary work. From the Gola Ghât part of Ranchi, and into the 130th mile, the country is an undulating plateau under rice cultivation. Between the crest of the Gola Ghat and Ranchi, the drainage which rises everywhere along the north edge of the plateau for some 40 miles west is crossed. A little to the west of Ranchi, about the 130th mile, the line crosses the watershed of the Koel and Suburnarekha rivers; then descends to the valley of the Koel, crossing this river at the 155th mile with a bridge of 600 feet waterway about 40 feet above the bed.

Between the Koel and the Sunk is another high watershed, rising suddenly some 165 feet, with a corresponding but longer fall on the west. Some rather heavy work is required up to the Sunk crossing mile 175. A bridge of 600 feet waterway is here required; the foundation of this and of the Koel will be on rock.

The line now gets into hilly country with a good deal of forest land. From Lodam to the foot of the Kastura Ghât there is a great deal of jurgle, and some time was required to find an easy route to the head of the Kastura Ghât. The descent here is 550 feet, requiring 11 miles of ghât work, and

gradients of 1 in 70 and 1 in 80 will probably be required. From the foot of the Kastura Ghat the line descends to the Lib through what is described as a very

easy country, the valley being cultivated.

Crossing the hib at 21 th mile, over which a bridge of 500 feet is required with rock foundations, the route lies up the Dorhi valley, ascending apparently 1 in 100 without much work to a height of 400 feet above the E b in 20 miles. The Dorni va ley is cultivated in patches, but all round are hills covered with forest; the main pat lying on the north of the line.

From the Dorhi valiey the line emerges on the head waters of the Maini, which rises in the nain pat, skirts the foot of this up to the crest of the

watershed between the drainage fl wing to the north and to the south.

Here another ghat descent of some 235 feet is required. Mr. Dibblee proposes to overcome this by a very circuitous line, involving a curve of about

1,000 feet rad us.

From this ghat to Lakhanpur in Surgoojah the country is cultivated, and a rather wide plain extends up to the Rer river, which is crossed by a bridge of 400 feet waterway but to obtain length to descend from the high ground to the river, a sharp bend to the south is required.

After crossing the Rer the country is scarcely populated, and is covered with forest intersected with numerous ravines, and the line has to be carefully

located to aveid hills and to take advantage of the ground.

At the 313th mile Uchlunga is reached; the line turns sharp to the west as far as Kedai on the southern edge of the plateau and close to the Hesdoo river, which flows some 400 feet below. To avoid a descent of 400 feet to the river, an ascent of 400 on the opnosite side, and a similar descent of 400 to the Tan river, and another ascent and descent beyond this. Mr. Dibblec examined a line along the valey of the Hesdoo, which he pronounces practicable, but which, judging from the sharp bends and very tortuous course, would be attended with considerable expense and inconvenience, is not danger, in working. Crossing the Hesdoo at the 328th mile, and the Tan at the 340th mile, with bridges of 700 feet and 400 feet span, the line passes Katghorn, and through an opening in the Ratanpur hids, passing close to Ratanpur on the east side, emerges into the plain country at mile 378. From Ratanpur to Belaspur the country is a flat plain and under rice cu tivation. The line would run nearly on a watershed, crossing the Arpa river north of Belaspur, where the river is wide and shallow, but no better crossing is to be had above the junction with the Karung river on this side of the town.

The length of this route is 393 miles, measured in the inch to mile survey maps. Of this distance from Burrakur, 200 miles may be considered as passing through fairly populous and cultivated country, 113 miles run through narrow cultivated valleys surrounded by hills and forest, and >0 miles through almost uninhabited country covered with forest. Coal is obtainable in the western part of the Surgoojah State, but has not hitherto been worked, there being no demand for it, and the population in this part of the country is but scanty.

#### Intermediate route.

This includes the portion of the northern route already described as far as

Ranchi for 110 miles in length.

The line would now run to the south-west, making a slight detour to keep near the head waters of the Suburnarekha and Kanchi rivers, passing the village of Mattola 114th mile, Lodhma 120th mile, Machia 127th, Tilmi 134th, Jeria 140th, and crossing the Karo river at 145th mile.

Up to this point the plateau is undulating and under rice cultivation for miles east and west. The Karo river requires a bridge of 400 feet waterway. From this river to the Koel the country is billy, the low lands being under rice cultivation, and considerable care will have to be given to the location of the line to avoid the hills. At the 150th mile, west of the village of Kamdera, the country falls suddenly 150 feet from the ridge, dividing the basins of the Karo and Koel rivers.

Crossing the Kiel east of Sukenda, with a bridge of 800 feet waterway, the line would run north of Sasia, 162nd mile, and W S W to Agarma, 167th mile, along a minor watershed covered with forest, turning south at 168th mile to Kolabira. From Agarma to Kolabira a great deal of rock crops out on the surface of the country, and the line will require very careful location, and the

country is hilly with not much cultivation.

Between the 175th and 182nd mile the country falls 400 feet. There is, however, a valley in the hills down which the line could be taken, and length obtained for a gradient of 1 in 100 at rather heavy expense to Kudrung. The range of hills through which it is necessary to pass form part of the watershed between the Koel and the Sunk\*.

From Kudrung, 183rd, to the Sunk river, 204th mile, the country is easy and work would be light. The valley is narrow but fairly populated, but land is being cleared everywhere of forest, and new villages are springing up all The Sunk requires some 800 running feet waterway; rock foundation

would be obtained.

The watershed of the Sunk and Eib has now to be crossed, and from the 204th to the 230th mile the country is very rugged and rocky, covered with forest and scarcely populated.

Of this 26 miles I calculate 4 miles will be as expensive as ghat work, and have allowed for it as such; the remainder through forest can be taken

as ordinary work.

At the 230th mile the line would emerge into rich land, in which tobacco. sugarcane, oilseeds and rice are grown in abundance, and the country is comparatively flat up to the Eib river, 250th mile. About the 240th mile the valley widens out very considerably, being not far from its junction with the main valley of the Mohanuddy. The Eib is here a broad river with a sandy bed, a little rock is met with in places, but dips rapidly beneath the sand, and lies probably generally at some depth; a bridge of 1,600 feet waterway is required.

From the Eib to Do lunga, 264th mile, there are no difficulties. Five miles south of the 255th is the large market village of Rajpur, containing a population of 1,000 inhabitants, and produces sugarcane, pan, tobacco, oilseeds, grain and rice. The Basunder nultah is a tributary of the Eib, is crossed at the 259th mile, with a bridge of 200 feet waterway. In the Doolunga nullah, about the

264th mile, coal is found cropping out at the nullah bed.

From this point to Hingir a line was prospected by Mr. Ramsay and myself vid Hingir to Raigurh. This route, however, does not appear practicable, excepting at great expense and with severe gradients, although the survey sheet shows no particular obstacles. The survey sheet, C. N. No. 54, is somewhat incomplete in detail about this place. For 15 miles the country is covered with hills, ravines, and forest. Hingir is in a high valley between

two ranges of hills.

The winding path rises 273 feet in 11 miles; falls 126 feet in 3 miles; again rises 36 feet and falls 36 feet in 13 miles; rises 123 feet in the next 3 mile, and falls 348 feet in 5 miles, and the valley being narrow, there does not appear much room for curving round the heights. Further reconnaisance is therefore being made between the Eib valley and the village of Arbhar. One route to the north, viá Tekripara, Patrapali, Tiparia and down the valleys of the Koledega and Kurket crossing the Mand at Gurda, and another to the south from Raigurh

towards Rajpur.

The northern of these alternatives would be preferable. The east part of it, as far as it meets the road from Raigurh to the north, has been travelled over by Mr. Clayton, Assistant Engineer, who reports it quite practicable as far as he went, and I was informed at Raigurh that the route is practicable between the hills to the westward as far as Korba.† The line would pass through a long and wide strip of coal country. The southern alternative would run across only a narrow tongue of Burrakur rocks in which coal is found. Rupees fifteen lakhs allowed by me for the 15 miles past Hingir in the rough approximate estimate now drawn up, with the estimated cost of the remaining portion to Arbhar, would probably more than cover the cost of the alternative.

This description of the Hingir route should properly have been given in the report on the southern line, as the intermediate joins the southern line at its 264th mile from Burrakur, equivalent to 255 of the southern line.

Since this report was written, information has been received to the effect that very serious difficulties have been med with reen Kulabira and Kudrung, so much so as to render it doubtful if the intermediate route is even practicable. H, C. LEVINGE.

The rest of the country into Belaspur is nearly on flat ground; the rivers to be crossed are described in the southern route. The length by Ranchi, Suadi, Hingir, and Raigurh to Belaspur is 375 miles, of which 245 may be said to be through fairly cultivated and populous country, 82 through narrow cultivated valleys and forest surrounded with hills, and some 48 miles barely inhabited.

Southern Route.

This line should leave the East Indian Railway at Sectarampur to avoid the double crossing of the Burrakur and Dampoda rivers, which are each of them almost as wide above their junction as at the crossing below the junction. Mr. Ball's reason for selecting Burrakur as a starting point was that he had been informed that the bridge over the Grand Trunk Road might, if the girders were strengthened, be made use of for the Railway. The unanimous opinion of Messrs. Dibblee, Ramsay and myself is that the piers of this bridge only could be used, and that new girders and roadway would be indispensable. There are three main girders in each span of a very light build, and the bridge consists of nine spans of 150 feet and 7 arches of 75 feet.

The expense of removing these girders and putting up new ones to accommodate road and railway traffic, with the addition of the bridge required on the Damooda river and Khoodya nullah would be more expensive than the crossing below the junction and joining on to the East Indian Railway at Sectarampur, besides the inconvenience of obstructing the large coal traffic over the bridge; the rise to the East Indian Railway would be very

considerable, and the junction would require sharp double curves.

Assuming Sectarampur as the junction, the line would traverse a high ridge between Sectarampur and the Damooda. At about the .5th mile the

Damooda would be crossed by a bridge of about 1,800 feet waterway.

After crossing the Damooda the line would wind round the east of the Pachet Hill to Ragunathpur—a large market village—at the 20th mile. From here to Purulia, 45th mile, running on or close to the watershed of the Damooda and Cossye rivers through a fertile country south of Purulia, the Cossye river is crossed (mile 48th) near the village of Kutloie: seven hundred running feet waterway is required on well foundations.

Up to the village of Burracomra, 57th mile, the country is easy, and as already described. From Burracomra southward the ridges become rocky and country more expensive to work through, particularly near Maldah, 67th mile, where a detour to run between the hills is required. The country gets more billy till the Dalma range is reached, which the line crosses near the village of Chandil, 78th mile. The Kowaree and Bamnee rivers, 56th and 75th of 156

feet waterway each, are the only important streams on this length.

At Chandil a 15 feet rock-cutting is said to be required, and the country rises to a ridge 57 feet higher, and falls again 206 feet to the bed of the Suburnarekha river, three miles south of the ridge. The Suburnarekha requires 1,100 feet waterway; shale crops out in the bed in various places. South of the Suburnarekha is the end of the range of hills dividing Manbhoom from Singbhoom, and the ground rises at once 135 feet to the top of the ridge in about one-third of a mile, involving some 50 feet depth of rock-cutting. South of the ridge, and running along the foot of it, is a nullah, the bed of which is 75 feet lower.

From the Suburnarekha to the Khori nullah, 90th mile, the country is rocky and covered with forest, crossing several spurs of some low hills forming

the watershed of the Suburnarekha and its tributary the Sanjai.

From the 90th mile the route lies up the valley of the Sanjai through undulating open country, crossing several minor streams, tributaries of the Sanjai, at villages Sengeri, mile 90th, at Ukri, mile 94th, at Tilingtiping, mile 102nd, at Asantoria, mile 105th, at Paria, mile 111th, at Ulibira, mile 112th, and at Jantilbera, mile 117th. The country is under rice cultivation, and the valley is a fair breadth up to 120th mile between the Sanjai and the northern hills. On the south side of the Sanjai is the eastern end of the Saranda Hill range nearly up to Chyebassa. The route through the Soru pass was tried in order to avoid crossing so many tributaries of the Sanjai, but proves to be nine miles longer and more expensive than up the valley.

From 120th mile the valley of the Sanjai now becomes very narrow and rocky in places. The river is crossed at the 128th mile, and the watershed between Sanjai and Koel valley passed at 135th mile at Dumurea—a rise of 263 feet above the bed of the Sanjai, and 176 above the bed of the Gogra, which is crossed at 132nd mile. The work is somewhat heavy up to the 140th mile, and the Sanjai requires 400 running feet of waterway.

From the 140th mile to 163rd mile the country is thick forest and very hilly, rising and falling very considerably as ridges and streams are crossed. This length has been estimated therefore as ghat work at Rs. 1,00,000 per mile. The Karo nullah, 200 feet waterway, is crossed at 144th mile, Koina 200 running feet at 1531, Galoon 60 feet bridge at 155, three nullahs from 40 to 80

feet and the Samtia nullah at 162nd mile 100 running feet.

From 163rd to Kutnia 200th mile the valley is easier to work through, as the hills are further apart and the ridges not so high. Several small streams are crossed requiring 40 to 60 feet waterway, and at 183rd mile the Brahmini river, which is the continuation of the Koel and Sunk rivers of Chota Nagpur, requires 1,800 running feet of waterway. The bed of the liver is rocky, and no expense in foundations will be incurred beyond the Brahmini, the Langi Mohun at 187th mile 100 feet, and Bor nullah 192nd mile 150 feet are the only important streams. North and south of the line throughout this length are masses of hills, the southern being the Saranda range. Throughout this length the country is partially cultivated, but the population is scanty.

From the 200th mile to 220th mile crossing the ridge dividing the Sunk valley from the Sampai at Sogra, 205th mile, which is 200 feet higher than Kutnia, the country gets more and more cultivated as the valley opens out. Several nullahs from the north-west face of the Saranda hills are crossed and

the country is undulating.

At the 220th mile a broad open plain is reached, well cultivated and populous, much as described already in the intermediate route south of Suadi. The valley of the Sampai joins that of the Eib opposite the 215th mile: up to Rajpur, 245th mile, there are no difficulties.

The Eib would require at least 1,800 feet waterway here, possibly more; the cross section was taken at Talpachia, higher up, where at first we proposed to cross, but I thought it advisable to go if possible close to the large village of Rajpur.

From Rajpur, which has been already described, the route proposed was vid Doolunga to Hingir and Raigurh. The reasons for abandoning this have already been given.

Raigurh is a small town of some 5,000 inhabitants on the river Kelo, doing a small trade with Sambulpur. From this town to Belaspur, after skirting for 3 miles the ravines of the Kelo up to the 286th mile, the route lies in the valley of the Mohanuddy, a broad open plain, the only difficulties being the crossing of several tributaries of the Mohanuddy, which is expensive work, as follows:-

> At 292nd mile the Mand river, 1,500 feet waterway, bed sand and the . bridge must be on wells.

At 314th, Sapnai nuilah, 120 running feet.

At 315th, Borai river, 600 running feet, good foundation.

At 337th, Son river, 300 feet.

At 835th, Hesdoo, 1,000 running feet, foundation rock. At 355th, Lilegur nullah, 300 running feet, foundation rock.

At 362nd, Arpa, 500 running feet, foundation rock.

The junction with the northern line and probable C. P. line from Raipur is at the 366th mile. This line is therefore the shortest of the three, but the extent of the bridging and the rough work crossing the Suburnarekha valley and from the Sangai into the Koel and Sunk valleys make it expensive, and rises of some 200 feet to cross the ridges are not unfrequent in the hilly country.

Of this length of 366 miles, it may be estimated that 200 miles run through cultivated populous country, 86 miles through narrow valleys partially cultivated, and 80 miles through forest and barely populated country. There are copper mines in the Saranda hills and iron ore in abundance, as indeed there is in all these routes. The country south of Chyebassa appears, however, cut off from the Mohanuddy by an extensive range of hills.

The respective merits of these routes, so far as regards cost and probabi-

lities of local traffic, may be summed up as follows:-

Northern route, probable length		393 miles.
Probable cost		Re. 2,60, 15,366*
Cultivated and populated		200 miles.
Narrow valleys half forest		1:3 ,,
Forest and uninhabited		80 ,
Intermediate probable length	4	375 ,,
Cont	***	Rs. 2,60,07,870+
Cultivated and populous		245 miles
Narrow valleys half forest		82 ,,
Forest and uninhabited	* * *	44 ,,
Southern route, probable length		366
Probable cost		Re. 2,70,67,546‡
Cultivated and populated		200 miles
Narrow valleys half forest		86 ,,
Forest uninhabited		80 ,,
Coal at Burrakur and Hieger.		

This report has been drawn up from my rough notes and of the Executive Engineer's with a view to furnish, at the earliest practicable date in a connected form, some idea of the description of country traversed without reference to alternatives still requiring examination. It is believed that it furnishes a sufficiently approximate view of the relative value of the different routes, and shows to a certain extent the work that has been done by the officers out on the reconnaisance duty. More complete information can of course be furnished when the parties return from their field work, and are able to work up their notes and levels and surveys.

W. H. PARKER, M.I.C.E.,

Engineer-in-Chief, Nagpur State

Railway Survey.

<sup>\*</sup> As revised (including land) Es. 2,98,49,318.
† Do., do., , 2,96,10,573.
† Do. do., , 2,96,30,471.

#### CALCUTTA EXHIBITION OF INDIAN ART MANUFACTURES, 1881-82.

REVENUE DEPARTMENT.—MISCELLANEOUS.

Calcutta, the 22nd April 1882.

RESOLUTION.

. READ-

1

The report of the Committee of Management of the Calcutta Exhibition of Indian Art Manufactures, together with the awards of the jurers.

In January 1881 the Native Industrial Art Committee at Simla proposed to hold an Exhibition of artistic textile fabrics and of art metal work at Calcutta in December of the same year. At the suggestion of the Lieutenant-Governor the scope of the Exhibition was enlarged by the addition of a number of other classes of articles in which competition was to be invited, and it was decided that the whole management of the Exhibition should be left to the Government of Bengal. Mr. Locke, the Secretary to the Committee of Management of the Calcutta Economic Museum, was invited to draw up a memorandum regarding the plan of the Exhibition, the arrangements to be made for holding it, its cost, and the articles which should be selected for exhibition, and his suggestions formed the basis of the plan of the proposed Exhibition. The Committee of Management of the Economic Museum consented to undertake the organization and supervision of the Exhibition, which it was decided was to be confined to the following classes of articles:—

Silk, including corah, plain white, coloured and figured silks, tusser, and other wild silks.

Muslin and other cotton fabrics, including durries, purdas, and table-covers.

Mixed silk and cotton fabrics.

Embroidery and lace.

Carpets.

Mats and matting.

Gold and silver work, jewellery, &c.

Ivory and wood carvings and inlaid work, including horn work, turned work, lacquered work, straw and cane work, and other fancy ware.

Metal ware.

Pottery.

Kishnaghur figures.

Stone carvings.

Glass ornaments.

Shell carvings.

To these the following classes were subsequently added, viz.-

Manufactures from flax, hemp, occoanut and other fibres, including paper.

Woollen fabrics.

Leather manufactures.

Cabinet ware and furniture.

Soap.

2. A grant of Rs. 22,250 was assigned for the necessary expenses, power being given to the Committee to spend the funds at their disposal to the best advantage within this limit. It was decided that the Exhibition should be open, so far as space would allow, to manufactures from all parts of the Indian Empire, and the Committee were desired to place themselves in communication with the various local Governments and Administrations with the view of procuring articles for exhibition. The Lieutenant-Governor did not feel himself at liberty to sanction expenditure from the Provincial Funds of Bengal for the purchase of specimens from other parts of India; but the Committee were authorized to arrange with other Governments for the supply of articles such as it would be desirable to include in the Exhibition if they undertook to dispose of them afterwards, by sale or otherwise, as the Governments concerned might desire. The Lieutenant-Governor at the same time invited the co-operation of all local Governments and Administrations, and Sir Ashley Eden has much pleasure in acknowledging the assistance which other Governments have kindly afforded towards rendering the Exhibition successful. A more varied series of articles would no doubt have been contributed from other provinces had it not been that the views of the Native Industrial Art

Committee, as to the desirability of confining the Exhibition to a few classes, were made generally known, and had not that Committee confined its influence to securing a thorough representation of the selected classes for which the Committee offered medals, i.e., (A) Carpets, (B) Embroideries, (C) Lace, (D) Kinkobs, (E) Metals.

3. The Exhibition, which was held in the Indian Museum, was opened on the 4th January last by His Excellency the Viceroy, and remained open until the end of February, during which time it was visited by 6,143 visitors, exclu-

sive of holders of season tickets.

Admission by daily tickets commenced on the 10th January, the charge made being one rupee on Mondays, Wednesdays and Thursdays, eight annas on Saturdays, and four annas on Sundays. The Exhibition was not opened one Tuesdays and Fridays. On the 7th February the rate was reduced uniformly to eight annas, and on the 14th idem to 2 annas. The total receipts from season tickets were Rs. 1,017, and from daily tickets Rs. 1,832-6. Some dissatisfaction was felt at the absence of a catalogue during the greater part of the time for which the Exhibition remained open. The amount of work, however, connected with the Exhibition, so greatly exceeded the anticipations of the Committee, that it was not found possible to complete the compilation of the catalogue until the Exhibition had been open for some time.

4. Altogether 4,873 articles were exhibited for sale at prices amounting in the aggregate to Rs. 1,27,807, of which 2,323 were sold while the Exhibition remained open realizing Rs. 28,400, and 1,053 more were disposed of afterwards by public auction for about Rs. 6,500, so that the value of the

articles sold amounted in round numbers to Rs. 35,000.

The number of articles exhibited in each class are given in the table

Tite as milator a tra				
I.—Silk febries, &c II.—Muslin and other cotton fabries, &c III.—Mixed silk and cotton fabries	261 632 82	XIII.—Pottery XIV.—Kishnaghur figures at similar specimens modelling	nd of	466
IV.—Embroidery and lace V.—Carpets VI.—Mats and matting	292	XV.—Stone carvings XVI.—Glass, including person ornaments made		
VII.—Manufactures from flax, hemp, 20ccanut and other fibres, including		that material	***	70 59
VII.—Rope manufactures	129 59	VIV C	***	62.0
VIII — Woollen fabrics  IX.—Leather manufactures  X.—Gold and silver work, jewellery, &c	157		***	5,223
ings, &c	789			

on the margin. Of these, 2,560 were contributed from Bengal, 1,135 from Madras, 156 from Bombay, 518 from the North-Western Provinces, 96 from British Burmah, 63 from Assam, and 695 from Hyderabad and the Native States. Three hundred and fifty articles were exhibited on loan, and had the space for exhibition at the disposal of the

Committee been greater this number could have been largely increased.

5. In point of merit the classes best represented were II, muslins and other cotton fabries; IV, embroidery and lace; VII, manufactures from flax, hemp, cocoanut, and other fibres, including paper; to each of these classes two gold medals were awarded. One gold medal was also awarded to class V carpets. Altogether 7 gold medals, 35 silver medals, 60 bronze medals, and 84 certificates of honourable mention were awarded.

6. The entries of silk fabrics were not very numerous; the jurors consider that the coloured, figured and printed silks possessed most merit, and have singled out for special commendation two pieces of figured silk from Tibet exhibited by the Local Committee of Darjeeling. It is to be regretted that these specimens not being of Indian manufacture were held to be ineligible for competition. The printed silks from the 24-Pergunnahs, and the figured silks from Maldah and Midnapore, are also commended. The Committee express themselves disappointed with the specimens of corah silks and tussers. There is no doubt that the silk-manufacturing industry throughout Bengal is in a languishing state, though the excellence of some of the specimens exhibited is sufficient to show that the art of skilful weaving is not lost.

7. The class of cotton fabrics was well represented. The Basel Mission Weaving Establishment at Cannanore, and the Mission Industrial Establishment at Calicut, were specially successful. The former gained a gold and the latter a silver medal for general excellence of manufactures; while two silver medals for table-linens and towellings, and one bronze medal for

shirtings, were awarded to the Basel Mission Weaving Establishment, and three bronze medals for trowserings, ginghams and jhool cloth fell to the Mission Industrial Establishment. Both establishments also earned a large number of certificates of honourable mention. It is gratifying to observe that several pieces of very fine Dacca muslins were exhibited, and that the jurors were able to

award one gold and one silver medal for two of these.

8. In the case of class IV (embroidery and lace) the jurors found it necessary to make separate awards for embroidery in gold and silver, in silk, and in cotton, and for brocades and laces. Taking the class as a whole, they remark that the articles exhibited "show that care and skill have produced several excellent specimens in the various handicrafts both for design and for fineness of workmanship. A gold medal was awarded to the Jeypore School of Art for two specimens remarkable for their richness of design and elegance of workmanship, and a silver medal to Hazarimul for a blue satin robe embroidered in thread.

9. The jurors in Class V (carpets), while awarding praise where due, have done very good service by calling attention to the main defects observed in some

of the specimens exhibited. Their remarks are as follows :-

While admitting the general excellence of the collection, we think it will perhaps be of more advantage to this general branch of manufacture to note some of the defects which struck us.

In material there were some specimens of the Mirzapore class so coarsely woven and so heavy in pile as to render it doubtful whether their warp would stand the removal and dusting which would be necessary in ordinary use.

The texture of some specimens was uneven; for though the various lines of the pattern had been fairly well preserved, there was a want of evenness in the two sides of the work, due to the irregular beating home of the west threads.

There was also in one or two of the specimens irregularity in the tension of the warp,

which prevented the carpet from lying quite flatly when spread out.

The designs were generally good, but there appeared to be want of judgment in some cases in suiting the design selected to the size of the work. This defect was specially remarkable in the details and width of borders.

Of the colouring and dyeing we noticed some specimens in which aniline had been used,

As all the colours from this source are fugitive, they should on no account be used.

In other specimens there was defective dyeing of blacks, probably from too long exposure to the iron solutions or defective washing. The wool had become friable and powdery. blacks in some other specimens had tinged the adjacent colours—an error, we think, of deficient washing of the worsted after dyeing.

The collection of carpets was a very varied one both in regard to material, extent, design and colouring, and its general excellence is admitted. A gold medal was given for two specimens from Kurrachee, distinguished by the fineness and evenness of the weaving, excellence of design and colours, and perfection of surface. Carpets from Hyderabad, Mirzapore, and Hazaribagh also earned silver medals.

10. The report of the jurors as to the mats and matting exhibited in Class VI is unfortunately unaccompanied by any remarks as to the general character of the articles contributed. Silver medals have been awarded to the Furreedpore and Dooriah Local Committees, for sitalpati mats, and four other specimens of the same manufacture gained bronze medals. In coir matting, the rewards, four bronze medals, were gained by the Midnapore Jail, and one honourable mention was awarded to the Kurrachee Jail. In aloe fibre matting the successful exhibi-

tors were Messrs. Harton and Company and the Hazaribagh Jail.

11. An interesting and valuable report has been submitted by the jurors on Class VII (paper) which, as it extends to some length, is printed as an appendix to this Resolution. The question of improving the Indian manufacture of paper, and of finding a market in England for the various Indian products capable of being used as material for paper manufacture, is one of great importance, and the remarks and suggestions of the jurors upon the subject

deserve careful attention.

The only specimens of machine-made papers come from the Bally Mills, which contributed papers of plantain, aloe, moonj, mahalyne, and jute fibre. The same mills contributed also specimens of blotting paper, cartridge paper, and brown paper, all of which are commended by the jurors. The jurors draw special attention to the fact that in no instance does an excess of clay appear to have been employed in the manufacture of the paper exhibited by the Bally Mills Company, to whom they have awarded a gold medal and a

certificate of honourable mention. Of the native hand-made papers exhibited, with one exception, the Committee do not speak favourably. The writing papers are coarse and wanting in colour and surface, and the blotting paper is far too absorbent. The exception alluded to is one of Bhutea paper from Darjeeling, which is praised both for its quality and toughness. The attention of the Commissioner of the Rajshahye and Cooch Behar Division will be invited to this subject, on which he will be asked to submit a report to Government.

12. With the exception of a few specimens of native manufacture from the Hooghly and Patna districts, the whole of the ropes and cordage exhibited were sent from the Ghoosery Rope Works or by Messrs. Ahmuty and Company

of Calcutta. To the former a gold medal was awarded.

13. No awards would appear to have been made for woollen fabrics, all of which, with the exception of two specimens from the Ahmadnagar Munici-

pality, were exhibited by two Calcutta cloth merchants.

14. In leather manufactures 157 articles were exhibited, to three of which the Jurors have awarded bronze medals. The general quality of the leather is reported to have been inferior. Many of the tanneries in the Suburbs of Calcutta were not represented, and there was no competition from Cawapore.

15. The exhibition of gold and silver ornaments was unsatisfactory. The

jurors' remarks on the subject are as follow:-

The artistic beauty of oriental design, and the manipulative skill for which Indian workmen are so justly famed, are very poorly and inadequately represented by the collection

of gold and silver ornaments in the Exhibition.

Delhi jewellers are celebrated for their fine work both in gold, silver, and precious stones; but the specimens exhibited, which have, we observe, been sent by Calcutta dealers, are of the most ordinary kind, and are not worthy of remark either as regards design or workmanship. Two or three of the pretty jewelled necklaces of Delhi are in the collection, but they are, on the whole, inferior specimens. Very few of the well-known turquoise or jade ornaments are exhibited, and those are very ordinary indeed. Many of the designs in jewellery are poor copies of European patterns. It is disappointing to find that the beautiful silver filigree work of Cuttack is represented by specimens only of the most ordinary character, neither remarkable for beauty of design nor skilled workmanship. A well-selected collection of the best and most highly-finished articles of this kind would have made a handsome and striking exhibit.

Burma might have made a fine show with the fine lace-like ruddy gold ornaments and grotesque silver-work in which her patient and skilful workmen delight; but the exhibite, with the exception of a choice selection of silver bowls and cups, lent by Sir Ashley Eden, are

confined to a few ordinary ornaments and articles of no merit.

The 24-Pergunnahs exhibit some gold watch chains, silver card-cases, cups, and other articles, mostly bad copies of European patterns, and not remarkable for either quality or finish.

Dacca, Dinapore and Rajshahye are well known for their silver and gold work, but are represented in the Exhibition only by a few articles which do not call for special remark.

The ornaments from Thibet, Darjeeling, and Kassia and Jaintea Hills are more remark-

able as curios than as works of art.

A special feature in the Exhibition is the superb collection of gold and silver Swami jewellery and silver plate contributed by Messrs. P. Orr and sons of Madras, to which firm we must award a "Gold Medal." The ornaments are mainly of European pattern, showing the well-known Swami pattern, and are remarkable for their high style of workmanship and finish.

The silver-work is a magnificent collection of cups, vases, claret jugs, caskets, &c., &c., nearly all bearing the Swami pattern, and all finished in the highest style of European art

workmanship.

Messrs. Hamilton & Co., who are not competing, exhibit a very fine collection of Cashmere silver-work, purely native, and of the best description, and some magnificent silver race cups and caskets of their own workmanship, besides some elaborately-mounted and highly-finished tiger-claw ornaments in gold work.

Two silver medals were awarded for enamelled work from Jeypore, of which

the collection as described is "fairly good of its kind."

16. Class XI has been considered by the jurors under the three heads of ivory carvings, lacquered work and straw work. Among the articles coming under the first category, one has received a silver medal and two were awarded bronze medals. The jurors remark on the absence of lacquered work from Benares, and draw attention to the goodness of the samples from Kotah. Several certificates of honourable mention were given for straw work.

17. Class XII (metal-ware) well represented, there being in all 711 specimens exhibited. The collection is reported to have been a very fine one of the